

Anagani Syam Prakash

LinkedIn Ph: +1 (561)-552-6049

sanagani2023@fau.edu | Address: 14401 S Military Tryl, Delray Beach, FL 33484

Detail-oriented Computer Science graduate with a strong foundation in data engineering, proficient in Python, SQL, and data visualization. Motivated and adaptable individual eager to apply strong technical and interpersonal skills in a dynamic role within the tech industry. Committed to continuous learning, innovation, and contributing effectively to organizational success. Passion for data pipelines, optimizing database performance, and implementing machine learning models in a Data Engineer role.

RELEVANT COURSEWORK

Software Engineering | Computer Science | Computer Networks | Web-based business development | Cloud computing | Computational Foundations of AI | Theory and implementation of database systems| Artificial Intelligence | Machine Learning | Sensor Networks & smart systems.

<b>Masters Computer Science (Graduation)</b>	Jan 2023 - Dec 2024
Florida Atlantic University, Boca Raton, FL	GPA 3.1/4.0
<b>Bachelor of Engineering (UnderGraduation)</b>	May 2022
Sathyabama University, India	GPA 7.9/10.0

TECHNICAL SKILLS

Business Analysis | Business Requirements Gathering | Functional & Technical Specifications | User Stories & Use Case Development | Process Analysis & Improvement | Gap Analysis & Risk Assessment | Agile & Scrum Methodologies | SDLC & Project Lifecycle Management | Data Analysis & Reporting | Stakeholder Communication & Management | Workflow Mapping & Documentation | Business Process Modeling (BPM) | Requirements Traceability & Acceptance Criteria | Wireframing & Prototyping | Reporting & Dashboards | Change Management & Continuous Improvement | Jira & Confluence | SQL & Excel for Analysis | KPIs & Performance Metrics | Regulatory Compliance & Quality Assurance | Risk Management | Nipr |

SOFT SKILLS

Analytical Thinking | Problem Solving | Effective Communication | Collaboration | Attention to Detail | Adaptability | Time Management | Stakeholder Management | Critical Thinking | Continuous Learning |

TOOLS AND TECHNOLOGIES

**Programming Languages:** C, Python(Numpy, Pandas, Matplotlib, Seaborn)  
**Databases:** SQL, Sql Queries, Microsoft Office(Microsoft Word, Microsoft Tools, Microsoft Excel , Ms Powerpoint Ms Word,MTM)  
**Visualization Tools:** Microsoft Power Bi, Tableau, MS-Excel(VBA, Pivot, Vlookup, Xlookup, Macros)  
**Cloud & DevOps:** AWS(EC2, Lambda, DynamoDB), GCP (BigQuery), Azure, Docker, Kubernetes  
**Big Data:**Spark, Hadoop, Hive, Pig,Sqoop,Oozie

EXPERIENCE

<b>Data Engineer – Tetra Tech .</b>	(Jul 2023 – May 2025)
<ul style="list-style-type: none"><li>Supported the implementation and configuration of Salesforce CRM by assisting in customization, managing data migration tasks, and coordinating with stakeholders to ensure smooth onboarding and user adoption across business teams.</li><li>Designed, developed, and maintained Salesforce reports and dashboards that provided real-time visibility into key CRM metrics, pipeline health, and performance indicators for leadership and cross-functional stakeholders.</li><li>Applied SQL expertise to query relational databases, extract raw datasets, and perform detailed analysis that enhanced the accuracy of CRM insights and supported decision-making for customer engagement strategies.</li><li>Collaborated with business stakeholders to gather CRM requirements, identify gaps, and deliver solutions within Salesforce that improved lead management, account tracking, and customer segmentation processes.</li><li>Played a key role in data cleansing, deduplication, and normalization efforts to improve Salesforce data integrity, ensuring that customer records were accurate, consistent, and actionable for sales and marketing activities.</li><li>Assisted with CRM campaign execution including email marketing, automated workflows, and lead scoring models, improving customer engagement and driving more effective outreach initiatives.</li><li>Provided end-user support and troubleshooting for Salesforce CRM, diagnosing issues, resolving system errors, and conducting user training to improve adoption and overall CRM usability.</li><li>Partnered with technical teams to manage Salesforce integrations with third-party platforms such as Formstack, DocuSign, and Tableau, enabling streamlined workflows and better data synchronization.</li><li>Supported automation development using Salesforce Flow to streamline repetitive processes, saving time for end users and improving overall system efficiency.</li><li>Stayed up to date with Salesforce best practices, new features, and CRM industry trends, proactively recommending improvements to enhance CRM effectiveness and data-driven strategies.</li></ul>	
<b>Web Developer – Best Near Me - Remote.</b>	(Jun 2023 – Apr 2024)
<ul style="list-style-type: none"><li>Designed and developed responsive websites using WordPress, customizing themes and templates to match brand identity and user experience requirements.</li></ul>	

- Built custom pages using Elementor, WPBakery, and Gutenberg editors, ensuring cross-browser compatibility and mobile optimization.
- Integrated plugins for SEO, contact forms (e.g., WPForms), security (e.g., Wordfence), and performance optimization (e.g., caching tools like W3 Total Cache).
- Managed day-to-day website operations, including content updates, plugin/theme upgrades, performance monitoring, and backup management.
- Implemented SEO best practices using plugins like Yoast SEO and Rank Math to improve organic visibility and keyword ranking.
- Integrated Google Analytics and Google Search Console to monitor traffic, track user behavior, and identify optimization opportunities.
- Set up and maintained e-commerce functionality using WooCommerce, including product listings, payment gateways, and order management.
- Developed proof-of-concept data workflows on Google Cloud Platform (GCP) using BigQuery and Cloud Storage, evaluating performance and scalability for big data processing.
- Designed and implemented robust data pipelines to transfer and transform data from AWS DynamoDB into Hadoop.

### Data Engineer – Helical IT Solutions Pvt Ltd .

(Jan 2020 – Nov 2022)

- Developed scalable REST APIs with Python FastAPI to serve real-time Power BI dashboards by querying optimized datasets built on Databricks Delta Lake with RBAC controls.
- Automated deployment and model pipeline provisioning via CircleCI integrated with Terraform, improving dashboard refresh latency and backend model access by 35%.
- Engineered data microservices on Azure that streamed live metrics into Power BI from manufacturing and healthcare IoT feeds, driving real-time KPI visibility and alerting.
- Collaborated with ML engineers to containerize data ingestion and feature pipelines using Docker and deploy on Kubernetes clusters with centralized monitoring on Azure Monitor.
- Built Spark-based ETL jobs with PySpark for large-scale data transformation, enabling ML model consumption in a low-latency inference framework integrated with REST APIs.
- Enhanced backend logic through stored procedures and pre-aggregated query layers to support near real-time analytics for executive dashboards and operational metrics.
- Implemented observability into the Power BI backend data pipelines with metrics logging, failure alerting, and lineage graphs using custom Python-based diagnostic tools.
- Deployed Lambda-triggered workflows that monitored API uptime, ensuring zero-downtime pipelines for high-availability business intelligence applications.
- Integrated version control into all analytical services using Git, ensuring traceable deployment history and enabling rollback for faulty analytics models.
- Drove test automation by creating unit and integration tests for backend analytics services and monitored their health post-deployment using Grafana and Azure Log Analytics.

### Data & ML Engineer – U Future Tech.

(Feb 2018- Jan 2020)

- Contributed to Salesforce CRM configuration projects at U Future Tech, focusing on customizing objects, workflows, and validation rules to meet business requirements and optimize system functionality.
- Developed actionable dashboards and reports in Salesforce to track KPIs such as lead conversion, campaign performance, and customer lifecycle trends, helping business leaders monitor progress against goals.
- Utilized SQL extensively to extract, manipulate, and analyze large datasets from integrated systems, ensuring CRM insights were accurate, timely, and aligned with business objectives.
- Partnered with sales and marketing teams to refine CRM campaigns, including segmentation, targeted email outreach, and automated campaign triggers that improved customer acquisition and retention outcomes.
- Collaborated with data teams on cleansing and validation projects that improved CRM accuracy by reducing duplicate and incomplete records across large customer datasets.
- Provided first-line Salesforce user support by addressing system errors, assisting with navigation, and delivering step-by-step solutions that enhanced user confidence and productivity.
- Participated in requirements workshops with stakeholders to capture process challenges and propose Salesforce-based solutions that automated repetitive manual tasks and reduced inefficiencies.
- Assisted in CRM data migration projects by validating transformation logic, executing test queries, and ensuring data accuracy post-migration into Salesforce production environments.
- Supported the integration of Salesforce with DocuSign and Marketing Cloud, helping streamline customer communications, digital agreements, and automated outreach initiatives.
- Conducted knowledge-sharing sessions and prepared user documentation to improve team familiarity with Salesforce functionality and best practices for leveraging CRM data.
- Skilled in advanced SQL, query optimization, and tuning techniques for large RDBMS deployments, ensuring performance efficiency in cloud environments.
- Proficient in cloud deployments and CI/CD, with expertise in AWS services like RDS, Aurora, and Redshift, as well as Infrastructure as Code (IaC) using Terraform.

## PROJECTS

### Healthcare Cost Optimization and Patient Outcome Analysis Using Real-World Claims Data:

- Collaborated with healthcare data stakeholders to integrate CRM capabilities with healthcare datasets, enabling enhanced visibility into patient interactions, provider performance, and claims workflows.
- Developed SQL queries to extract and analyze patient claims and treatment history data, providing actionable insights that improved reporting accuracy and supported healthcare cost analysis initiatives.
- Designed Salesforce dashboards for healthcare analytics teams to track patient engagement, outcome trends, and resource utilization, aligning insights with organizational goals for cost optimization.
- Assisted in configuring Salesforce workflows and automation features that streamlined patient data intake processes, reduced manual errors, and improved turnaround time for healthcare staff.
- Executed data cleansing and deduplication tasks within Salesforce to ensure healthcare records were accurate, secure, and consistent across multiple sources of truth.
- Supported healthcare teams in managing CRM campaigns such as wellness outreach, appointment reminders, and provider follow-up communications through Salesforce automation.
- Worked closely with cross-functional teams to troubleshoot Salesforce data issues, ensuring that errors in claims reporting and patient data transformation were resolved efficiently.

- Assisted in documenting healthcare CRM processes, data workflows, and reporting logic to strengthen governance practices and maintain compliance with healthcare regulations.
- Partnered with analytics teams to connect Salesforce data with visualization tools like Tableau and Power BI, improving transparency of patient care outcomes and operational efficiency.
- Researched and applied Salesforce and SQL best practices within the healthcare domain, recommending process enhancements that improved both data integrity and reporting reliability.

**E-Commerce Product Recommendation System:**

- Designed and implemented a collaborative filtering-based recommendation system for an e-commerce platform.
- Ingested large-scale product transaction data from MySQL into HDFS using Sqoop.
- Processed and cleaned data using Spark and Hive, ensuring structured storage.
- Developed a Recommendation Model using Spark MLlib (Collaborative Filtering - ALS).
- Built a REST API using Flask to serve personalized product recommendations to users.
- Integrated the system with Tableau to visualize customer preferences and product trends.

**Financial Analytics System for Profit and Loss Management :**

- I developed a database system to monitor and analyze a company's financial performance. We created structured tables for accounts (revenue and expenses).
- Your Financial Analytics System effectively uses structured databases and advanced SQL queries to track profit, expenses, and revenue trends, making it a robust financial analysis tool.
- Enhancing it with Power BI dashboards for real-time visualization, including dynamic KPIs, drill-down reports, and trend forecasting, can improve decision-making.
- Consider adding automation via scheduled stored procedures, predictive analytics (ARIMA, ML models for forecasting), and integration with cloud databases (Azure, AWS RDS) for scalability and real-time insights.

**Scalable Video Streaming Platform Using AWS and CloudFront**

- In order to provide safe storage, adaptive streaming, and worldwide scalability, your scalable video streaming platform efficiently makes use of AWS services (S3, MediaConvert, CloudFront, and Elastic Load Balancer).
- Performance and cost effectiveness can be further maximized by enhancing it with AWS Lambda for serverless processing, DynamoDB for metadata storage, and Auto Scaling for dynamic resource allocation.
- To make the platform more intelligent, responsive, and user-focused, think about including AI-based video recommendations, real-time analytics with Amazon Kinesis, and edge computing for ultra-low latency.

**Sales Performance Dashboard in Power BI**

- Top Product Contribution: Identified that the top 10 products contributed to 60% of total revenue, with an average sales growth of 15% month-over-month. Focusing marketing efforts on these test products could increase overall revenue by 10%.
- Regional Sales Disparity: Analysis showed that the West region underperformed by 20% compared to other regions, with a declining sales trend. Redirecting resources and sales strategies to this region could boost sales by 12%.
- Customer Segment Profitability: Discovered that premium customers, though only 30% of the customer base, accounted for 55% of total profits. Targeting similar high-value segments could increase profit margins by 8%..

**Social Media Crime Detection using Machine Learning :**

- My project focused on Crime Detection in Social Media using natural language processing and machine learning. The goal was to identify and classify potential crime-related content from social media posts, such as hate speech, harassment, or threats.
- Using TF-IDF and models like Random Forest, Gradient Boosting, and Logistic Regression, your project successfully uses NLP and ML for crime detection
- Accuracy and contextual comprehension can be increased by enhancing it with deep learning (BERT, LSTMs), real-time data (Twitter API), and feature engineering (Word2Vec, NER).
- It can be made more effective and scalable by including imbalanced data processing (SMOTE), multi-class categorization (hate speech, threats, cyberbullying), and deployment via Flask/FastAPI.