

# Anagani Syam Prakash

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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.

### Masters Computer Science (Graduation)

Jan 2023 - Dec 2024

Florida Atlantic University, Boca Raton, FL

GPA 3.1/4.0

### Bachelor of Engineering (UnderGraduation)

May 2022

Sathyabama University, India

GPA 7.9/10.0

## TECHNICAL SKILLS

Business Analyst | Business Analysis | Agile | Scrum | Jira | Project Management | Risk Management | Python Code | Core Java | DBMS | SQL Server | Data Governance | Data Warehousing | ETL Tools | ETL Pipelines | Power BI | Data Access Control | Data Integrity | Data Visualization | Data Science | Artificial Intelligence | Machine Learning Algorithm | Deep Learning | Statistical Analysis | Data Pipelines | Git |

## SOFT SKILLS

Strategic Initiatives | Strategic Planning | Team Performance | Technical Solutions | Responsible | Technical Leadership | Scripting | Prioritize | Write | Problem Solving | Commitment | Confident | Influence | Progress Reports | Fidelity | Self Management | Credentialing | Technical Team Led | Journals | Convert | Teamwork | Leading | Publish | Stem

## 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 PowerBi, 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

### Data Engineer – Tetra Tech .

(Jul 2023 – May 2025)

- Collaborated with cross-functional teams to design data models compliant with regulatory and business requirements.
- Researched and analyzed regulatory guidelines impacting data governance and reporting processes.
- Automated workflows ensuring adherence to data quality and compliance standards aligned with industry regulations.
- Supported compliance initiatives by maintaining up-to-date knowledge of data policies and assisting in documentation efforts.
- Partnered with stakeholders to facilitate process improvements and data pipeline optimizations supporting business needs.
- Leveraged expertise in cloud platforms and ETL tools to manage scalable, secure, and auditable data environments.

### Web Developer – Best Near Me - Remote.

(Jun 2023 – Apr 2024)

- Built and maintained scalable ETL pipelines using AWS Glue, Lambda, and S3 for processing large datasets with high accuracy and efficiency.
- Developed and automated cloud-based data workflows for batch and real-time processing, improving operational scalability and deployment reliability.
- Conducted integration configuration, deployment, and testing to ensure smooth data ingestion and transformation across multiple systems.
- Collaborated cross-functionally with analysts, engineers, and stakeholders to deliver actionable data insights supporting public safety and healthcare initiatives.
- Implemented data validation and anomaly detection techniques to uphold data quality and integrity.
- Used Python scripting and SQL to automate processes and optimize database performance in production environments.
- Employed container technologies like Docker for deployment and worked with cloud-hosted software environments.
- Provided mentorship and technical guidance to junior engineers, fostering team growth and knowledge sharing.

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

(Jan 2020 – Nov 2022)

- Designed and delivered Business Intelligence reports with advanced features such as cross-tabs, prompts, drill-downs, sub-queries, and conditional formatting, enhancing data-driven decision-making.
- Managed Business Objects universe changes by manipulating tables, creating joins, aliases, and contexts in the semantic layer to ensure accurate and optimized reporting structures.
- Wrote efficient and scalable SQL queries for data extraction, transformation, and loading (ETL), supporting enterprise-level reporting and analytics needs.
- Developed and maintained Tableau dashboards to visualize complex datasets, improving visibility into KPIs and operational performance for business stakeholders.
- Collaborated with cross-functional business units to gather requirements, understand key processes, and deliver customized dashboards and reports aligned with operational objectives.

- Researched and validated new metrics and data sources to support ad hoc analysis, process improvements, and ongoing performance evaluations across departments.
- Led and facilitated monthly meetings with business and operational leaders to review current analytics deliverables and discuss upcoming reporting needs and initiatives.
- Demonstrated proficiency in Power BI and Business Objects WebI reporting tools, ensuring reliable and accessible data insights for leadership and business users.
- Ensured high data accuracy and integrity across multiple business units by conducting quality assurance checks, anomaly detection, and validation of ETL workflows.
- Automated routine reports and dashboards to improve reporting efficiency and reduce manual workload, enabling faster and more consistent access to critical data.

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

(Feb 2018- Jan 2020)

- Strong understanding of various insurance lines of authority and licensing processes including renewal and termination.
- In-depth knowledge of NAIC, NIPR, and Sircon platforms for insurance licensing and compliance management.
- Expertise in managing continuing education requirements and conducting state-specific criminal background checks.
- Skilled in researching, analyzing, and documenting state and federal insurance regulations to assess impacts on business practices.
- Proven ability to recommend, direct, and facilitate process changes to ensure compliance with new insurance standards and guidelines.
- Maintains updated knowledge of insurance regulations and compliance issues to support organizational adherence.
- Experience partnering and collaborating effectively with diverse stakeholders to drive compliance and business initiatives.
- Demonstrated analytical skills aligned with business analysis and regulatory compliance requirements in insurance or risk management contexts.

## PROJECTS

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

- Designed and implemented scalable ETL pipelines processing healthcare claims data to support compliance with state and federal regulations.
- Analyzed complex insurance and payer datasets to identify trends impacting cost optimization and patient outcomes.
- Ensured data models and workflows complied with regulatory standards including HIPAA and RAF/HCC requirements.
- Collaborated with compliance and business stakeholders to document regulatory impacts and facilitate process improvements.
- Automated data validation and quality assurance processes to maintain high data integrity for regulatory reporting.
- Developed dashboards visualizing patient risk profiles and cost management metrics, enhancing decision-making aligned with insurance compliance.

### 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.