

Manideep Kotha

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Detail-oriented professional with a robust background in data collection, ETL processes, and automated reporting. Currently pursuing a Master's in Computer Science and Information systems, I am passionate about Data Analytics, Data Analyst, Data Science, and Business Analysis. Proficient in conducting statistical analysis, and leveraging predictive modeling to drive operational excellence. Demonstrates expertise in data visualization, incident management, metrics definitions, and customer success strategies. Adept at analyzing business processes and requirements to deliver data-driven insights and optimize business outcomes.

RELEVANT COURSEWORK

Software Engineering | Information systems and management | Computer Science | Cryptographic engineering | Web-based business development | Cloud computing | Computational Foundations of AI | Information Technology | Management information assurance security | Theory and implementation of database systems | Artificial Intelligence | Sensor Networks & smart systems.

EDUCATION

Masters in Computer and Information Science (Graduation)

Florida Atlantic University, Boca Raton, FL

May 2025

GPA 3.9/4.0

Bachelor of Computer Science Engineering (UnderGraduation)

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, India

Aug 2019- Jun 2023

GPA 8.7/10.0

EXPERIENCE

Expertise in Data Analysis, Best Near Me(Remote)

(Jan 2024-Aug 2025)

- Analyzed state and federal regulatory data to identify compliance impacts on business workflows, supporting risk management and insurance governance needs.
- Researched and documented business rules, regulatory changes, and process standards to ensure alignment with industry compliance expectations.
- Interacted with cross-functional stakeholders to gather business requirements for compliance-driven enhancements, documentation updates, and operational improvement.
- Assisted teams in interpreting insurance-related datasets, license life-cycle data, and regulatory reporting requirements.
- Improved documentation processes by maintaining detailed records of business rules, data flows, and compliance procedures for audits and regulatory reviews.
- Collaborated with technology and business teams to translate regulatory requirements into functional specifications and workflow changes.
- Supported process improvement initiatives by identifying gaps in regulatory adherence and recommending mitigation strategies.
- Ensured data accuracy and integrity across reporting systems, enabling proper monitoring of compliance, licensing, and renewal workflows.
- Participated in incident reviews related to compliance breaches or workflow inconsistencies, providing data-driven insights for remediation.
- Demonstrated strong stakeholder partnership by facilitating alignment between business, regulatory, and technical teams through clear communication and documentation.

Data & ML Engineer – U Future Tech.

(Jun 2021- Dec 2022)

- Partnered with business stakeholders to understand challenges, develop solution concepts, and deliver measurable business value.
- Conducted requirements gathering through stakeholder interviews, workshops, and documentation reviews.
- Translated business requirements into clear functional and technical specifications for data analytics and engineering teams.
- Used SQL to extract, analyze, and validate data to support stakeholder decision-making and solution designs.
- Created process flow diagrams and workflow documentation to illustrate current and future state technology solutions.
- Collaborated with cross-functional teams throughout SDLC, ensuring high-quality delivery of data-driven enhancements.
- Evaluated and recommended technology solutions to improve operational efficiency and automate business processes.
- Acted as a liaison between technical teams and business units to ensure mutual understanding and smooth implementation.
- Adopted Agile practices including backlog refinement, sprint prioritization, and iterative delivery.
- Communicated updates and insights clearly to both technical and non-technical audiences, ensuring stakeholder alignment.
- Collaborates effectively with domain experts, traders, researchers, and analysts to onboard, organize, and optimize data sources for analysis and decision-making.

TECHNICAL SKILLS

Database Designs | Business Analyst | Database Administration | Workflow Designs | Business Analytics | Data Validation | Data Governance | Data Transformation | Data Mining | Data Visualization | Database Analyst | Big data Tools(Kafka, Scala) | Data Extraction | Oracle | Reporting Tools | Data Collection | Data Warehouse | Agile Environments | Data Cleaning | Database Optimization | Quality Management | Quantitative |

SOFT SKILLS

TOOLS AND TECHNOLOGIES

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

PROJECTS

- Healthcare Cost Optimization and Patient Outcome Analysis Using Real-World Claims Data:**
- Analyzed healthcare claims data for adherence to federal and state regulatory coding standards (CPT, ICD, DRG) to ensure compliance across datasets.
 - Reviewed payer-specific guidelines and mapped their impact on billing accuracy, claims lifecycle processes, and policy compliance.
 - Documented data lineage, business rules, and regulatory mappings to maintain a compliant audit trail for healthcare and insurance workflows.
 - Identified discrepancies in claims submissions that could trigger compliance exceptions, enabling risk mitigation across review cycles.
 - Worked closely with clinical, actuarial, and compliance stakeholders to validate rules, ensure regulatory accuracy, and support governance needs.
 - Conducted process analysis to evaluate how changes in medical policies and coding regulations affect claims workflows and operational decisions.
 - Provided recommendations for workflow improvements that aligned with regulatory expectations and enhanced overall compliance accuracy.
 - Ensured data integrity and accuracy to support compliance auditing and reporting—critical for insurance reimbursement and risk scoring.
 - Automated documentation and validation processes to support recurring compliance checks tied to regulatory updates.
- Pinellas County, Hurricane Helene Using Excel & PowerBI (Real Time Project):** (Nov 2024 – Mar 2025)
- Data Accuracy: Over 5,000 records were streamlined and verified to ensure that they met FEMA requirements for funding eligibility.
 - Resource Optimization: By using data analysis to identify high-priority recovery zones, resource allocation was improved by 20%.
 - Dashboard Reporting: To improve transparency and decision-making, Power BI dashboards were created to monitor project KPIs.
 - Cost Efficiency: By doing cost analysis, reductions that resulted in a 15% reduction in overall project expenses were found.
- Health Monitoring and Analysis using Python :** (Sep 2023 – Nov 2023)
- Elevated Blood Pressure Prevalence: 40% of the dataset falls under the 'Elevated' and 'Hypertension Stage 1' categories, indicating a need for targeted interventions to manage blood pressure levels in this population.
 - Heart Rate Consistency: 90% of individuals have a 'Normal' heart rate, with only 5% showing 'Low' and 5% 'High' heart rates, suggesting that most of the population maintains a stable heart rate within healthy ranges.
 - Oxygen Saturation Levels: 95% of patients have 'Normal' oxygen saturation levels, with only 5% showing 'Low' saturation, indicating that oxygen deprivation is not a significant issue for the majority of this population.
- Customer Churn Analysis Using SQL & Python:** Jan 2024 – Mar 2024
- High Complaint Churn: Customers with over 5 service complaints exhibited a 35% churn rate, more than double the overall churn rate of 18%. Targeted retention campaigns for these customers could reduce churn by up to 20%.
 - Subscription Plan Impact: Analysis revealed that customers on the basic subscription plan had a 25% higher churn rate compared to those on premium plans. Upselling to premium plans could decrease churn by 15%.
 - Engagement Correlation: Customers with fewer than 3 interactions per month with customer support had a 28% churn rate, indicating that increasing engagement could lower churn by up to 10%.
- Sales Performance Dashboard in Power BI** May 2024 – Jun 2024
- 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 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%.
- App Reviews Sentiment Analysis Using Machine Learning** Jun 2024 – July 2024
- Sentiment Distribution: 60% of the reviews are classified as neutral, 30% as positive, and 10% as negative, indicating that most users are not strongly opinionated about the app.
 - Rating and Sentiment Correlation: 80% of 1-star ratings are associated with neutral or negative sentiments, suggesting that low ratings are likely to reflect dissatisfaction or lack of positive experiences.

• Common Themes in Reviews: The most frequent words in positive reviews include "good" and "easy," while negative reviews frequently mention "slow" and "problem," highlighting areas for potential improvement.