

MUNI SANDEEP KUMAR RAVILLA

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Data Analyst with 3+ Years of Experience in Predictive Analytics and Machine Learning.

EXPERIENCE

Arizona State University

Tempe, AZ

Data Analyst

January 2023 – May 2024

- Established a PostgreSQL database to analyze 500,000+ student retention records to identify key success predictors and enhance accuracy.
- Developed and deployed Python scripts for automated data processing and analysis, enhancing data operations efficiency and scalability.
- Implemented data pipelines using SQL and Alteryx, resulting in 15% reduction in processing time and 10% improvement in data accuracy.
- Presented detailed insights in Tableau, leading to an increase in intervention initiatives aimed at supporting student success.
- Optimized data workflows with Workday Adaptive Planning to enhance student retention analysis by 40% and support academic success.

Skills: *SQL, Python (Pandas, NumPy), PyAutoGUI, Scikit-Learn, Scrappy, Tableau, KPI, Alteryx, Workday Adaptive, ETL.*

Tata Consultancy Services

Bangalore, India

System Analyst

January 2021 – July 2022

- Implemented predictive modeling using Apache Spark and Hadoop, 3% reduction in fraudulent activities through real-time data analysis.
- Spearheaded trend analysis using Power BI and SQL, leading to increase in loan approvals and reduced credit risk through data insights.
- Employed Tableau and QlikView for ROI analysis, leading to a \$125,000 quarterly efficiency gain and a 10% reduction in overhead costs.
- Led integration of new banking technologies and historical data into reporting systems, ensuring data integrity and compliance.
- Delivered user management and application support for financial software ensuring regulatory compliance and minimizing downtime.
- Streamlined ETL pipelines and integrated SAS for advanced analytics, reducing integration time by 30% and improving data accuracy.

Skills: *Power BI, Tableau, QlikView, Jira, Bitbucket, ServiceNow, Control-M, Git, Gap Analysis, PeopleSoft ERP, Retrofitting.*

KaaShiv InfoTech

Chennai, India

Big Data Analytics – Summer Intern

April 2019 – July 2019

- Analyzed hotel occupancy with Python and SQL, optimizing dynamic pricing and driving a 25% revenue increase during peak seasons.
- Enhanced hotel efficiency by analyzing check-in/out processes with a Power BI Dashboard, achieving a 30% reduction in wait times.
- Developed ML models to reduce equipment downtime by 20% and save \$5000 quarterly through improved maintenance scheduling.
- Implemented an NLP-based guest feedback analysis system, generating actionable insights and improving guest satisfaction by 15%.

Skills: *Power BI, Python (Pandas, Numpy), SQL, Machine Learning (Scikit-Learn), Natural Language Processing (NLTK, spaCy)*

PROJECTS

Oil and Chemical Spill Incident Analysis and Clustering | [Link](#)

August 2023 – December 2023

- Clustered spill incidents based on severity and impact, achieving a 30% improvement in understanding their diverse effects.
- Improved dataset quality by 25% through geospatial and textual preprocessing, extracting actionable insights from spill descriptions.

Skills: *Apache Airflow, GPT-3, SMOTE, XGBoost, t-SNE, KMeans Clustering, Python, SQL, Tableau, OpenAI API.*

Interactive Disease Analysis Dashboard | [Link](#)

January 2023 – May 2023

- Developed a Tableau dashboard, enhancing insights by 30% for analyzing socio-economic factors and disease prevalence.
- Implemented filters for diseases, age, and state selection, enhance user exploration of health data by 30% and facilitating trend identify.

Skills: *Tableau, Python, SQL, Data Analysis, Dashboard Development, Socio-Economic Data Analysis, Public Health Analysis.*

Predictive Analysis of Blog Feedback | [Link](#)

January 2023 – May 2023

- Utilized SVD for dimensionality reduction and feature selection to predict the number of comments on blog posts.
- Compared the performance of regression models using SVD-generated features and preprocessed features on the Feedback dataset.

Skills: *Databricks, PySpark, Linear Regression, Decision Tree, Feature Engineering, Model Evaluation, Predictive Modeling.*

EDUCATION

Arizona State University

Tempe, AZ

Master of Science, Information Technology – GPA: 4.0/4.0

May 2024

Courses: Analyzing Big Data, Data Visualization & Reporting to IT, Advanced Big Data Analytics/AI, Advanced DB Management.

Anna University

Chennai, India

Bachelor of Engineering, Computer Science and Engineering

September 2020

Courses: Database Management System, Information Retrieval, Programming Data Structures and Algorithms, Social Network Analysis.

Published Paper on “Sentiment Analysis Using Logistic Regression Algorithm” in European Journal of Molecular & Clinical Medicine.

TECHNICAL SKILLS

Languages: Python, C++, R, HTML, CSS, Advanced SQL (MS SQL Server, PostgreSQL, Apache Cassandra, Amazon RDS, NoSQL).

Tools: Looker, MS Excel, Google Data Studio, Power Query, BigQuery, AWS (Glue, RedShift, SageMaker), Azure Data Factory.

Project Management: Agile, Scrum, Teamwork, Leadership, Public Speaking, Adaptability, Analytical Thinking, Attention to Detail.