

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 and SQL queries to analyze **500,000+** student records, enhance accuracy and identify key predictors.
- 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 **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%**, support academic success.

Skills: SQL, Tableau, Python (Pandas, NumPy), PyAutoGUI, Scrapy, KPI, Alteryx, Workday Adaptive, ETL, CI/CD.

Tata Consultancy Services (Client: Credit Suisse)

Bangalore, India

System Analyst

January 2021 – July 2022

- Implemented predictive modeling using **Apache Spark** and **Hadoop**, achieving a 3% reduction in fraud 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 **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: QlikView, Jira, Bitbucket, ServiceNow, Control-M, Git, **PeopleSoft ERP**, Gap Analysis, Retrofitting, Data Pipeline.

KaaShiv InfoTech

Chennai, India

Big Data Analytics – Summer Intern

April 2019 – July 2019

- Enhanced hotel efficiency by analyzing check-in/out processes with a **Power BI** Dashboard, achieving a 30% reduction in wait times.
- Analyzed hotel occupancy with Python and SQL, optimizing dynamic pricing and driving a **25%** revenue increase during peak seasons.
- 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, A/B testing.

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, **Public Health** Analysis, Dashboard Development, Socio-Economic Data 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, Apache Spark, PySpark, Linear Regression, Decision Tree, 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, Google Data Studio, Power Query, Big Query, AWS (Glue, RedShift, SageMaker), Snowflake, Azure Data Factory.

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