

# MUNI SANDEEP KUMAR RAVILLA

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

## EDUCATION

### Arizona State University

Tempe, AZ

Master of Science in 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 in 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.

## EXPERIENCE

### Arizona State University

Tempe, AZ

Data Analyst

January 2023 – May 2024

- Implemented data pipelines using SQL and Alteryx, resulting in a 15% reduction in processing time and a 10% improvement in data accuracy, enhancing decision-making efficiency.
- Established a PostgreSQL database to analyze student retention, uncovering 10% more success predictors. Presented insights in Tableau, leading to a 3% increase in intervention initiatives aimed at supporting student success.
- Integrated SQL, Alteryx, and Workday Adaptive to optimize data workflows for student retention analysis, resulted in a 10% enhancement in predicting retention rates, facilitating targeted intervention aimed at student success.

### Tata Consultancy Services

Bangalore, India

System Analyst

January 2021 – July 2022

- Implemented predictive modeling techniques using Apache Spark and Hadoop in the banking sector to analyze customer transaction data and detect fraudulent activities in real-time, resulting in a 20% reduction in fraudulent transactions.
- Spearheaded trend and metric analysis, leveraging advanced analytics tools such as Power BI and SQL. Implemented strategic data-driven insights resulting in a 15% increase in loan approval rates and a 10% reduction in credit risk.
- Delivered user management and application support for financial software, including ProfitSword and Microsoft Dynamics SL, ensuring regulatory compliance and minimizing downtime by 20% through proactive troubleshooting and vendor collaboration.
- Employed Tableau and QlikView for investment ROI analysis, identifying key areas for enhancement, Resulted in a \$125,000 quarterly efficiency surge and 10% reduction in overhead costs.
- Led integration of new banking technologies and historical data into reporting systems, ensuring data integrity and compliance. Utilized ETL pipelines and integrated SAS for enhanced analytics, reduced integration time by 40% and improved data accuracy by 30%.

### KaaShiv InfoTech

Chennai, India

Big Data Analytics – Summer Intern

April 2019 – July 2019

- Spearheaded the enhancement of hotel operational efficiency by deploying a Power BI Dashboard to monitor and analyze check-in/check-out processes. Achieved a 30% reduction in guest wait times, alongside a 15% increase in overall guest satisfaction.
- Leveraged Python and SQL to analyze hotel occupancy data, identifying peak booking periods and implementing dynamic pricing strategies, resulting in a 25% revenue increase during high-demand seasons.
- Developed predictive maintenance models using machine learning algorithms, reducing equipment downtime by 20% and achieving \$5000 in quarterly cost savings through maintenance scheduling.

## PROJECTS

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

August 2023 – December 2023

- Employed t-SNE to visualize original and augmented chemical data, reducing dimensionality by 30% while preserving 95% integrity.
- Clustered spill data using KMeans++ algorithm, visualized clusters in 2D space with t-SNE, enhancing pattern identification by 40%.

### Interactive Disease Analysis Dashboard | [Link](#)

January 2023 – May 2023

- Developed a Tableau dashboard, boosting insights by 30% for researchers and policymakers analyzing socio-economic factors in states.
- Applied predictive analytics to correlate typhoid prevalence, achieving a 25% reduction in disease care through targeted interventions.

## SKILLS

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

**Python Libraries:** NumPy, Pandas, Matplotlib, Bokeh, Seaborn, Scrapy, Beautiful Soup, Scikit-Learn, NLTK, PyTorch, TensorFlow.

**Tools:** Tableau, Power BI, Looker, MS Excel, PeopleSoft ERP, ServiceNow, Workday, Google Data Studio, Jira, Bitbucket, AWS.

**Data Analysis:** Data Visualization, Machine Learning, Data Mining, Data Storytelling, Statistical Analysis.

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