

# Tarun Sai Janapati

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## EDUCATION

**Saint Louis University** • Master's Degree  
*Master's in Analytics* • GPA: 3.9/4

Graduation: May/2025

## EXPERIENCE

**Full-Stack Developer** –The Haven of Grace  
St. Louis, MO

May/2024 – August/2024

- Developed a Client Management System using JavaScript, **HTML**, and **CSS**, automating data collection processes and reducing manual data entry time by **50%**, significantly enhancing operational efficiency and data accuracy.
- Implemented dynamic web features using **JavaScript** and **Python Flask**, enabling seamless modification and management of client data, improving user experience and usability for medical providers.
- Utilized **MongoDB** as the primary database, efficiently managing complex data structures and ensuring the system's scalability to meet increasing client and system requirements.

## SKILLS

- **Web Development:** : React, Node.js, Express, HTML, CSS, Flask, MongoDB
- **Programming Languages:** : Python, R Programming, SQL, JavaScript
- **Data Analysis:** : Pandas, NumPy
- **Data Science:** : Tensorflow, Keras, OpenCV, NLTK, Pytorch
- **Machine Learning:** : Regression, Classification, Clustering, Decision Trees, Random Forest, SVM
- **Data Visualization:** : Matplotlib, Seaborn, Tableau, Plotly, Power BI
- **Quantitative Analysis:** SPSS, Factor Analysis, Regression Modeling, Predictive Analytics
- **Microsoft Office Suite Skills:** Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Outlook

## PROJECTS

**AI-Powered Resume Builder Profile** Personal Project

December/2023 – Present

- Engineered a full-stack AI-powered resume builder using **React**, **TypeScript**, **Node JS**, **Express**, and **MongoDB**, streamlining the resume-creation process and reducing the time by 5x, enabling users to craft professional resumes effortlessly.
- Integrated **Google's AI Gemini** to automate the generation of resume summaries, descriptions, and cover letters based on job descriptions enhancing efficiency and saving users valuable time, empowering them to showcase their skills and experiences with greater clarity.
- Designed and deployed a user-centric interface utilizing **Vercel**, ensuring an intuitive and seamless navigation experience for users of varying technical backgrounds, making resume building accessible to all.

**Airline Tweets Sentiment Analysis** Personal

September/2023 – November/2023

- Developed a **machine learning** pipeline using **Python** to classify airline-related tweets into positive, neutral, and negative sentiments using a **14k-tweet dataset** from **Kaggle**, automating **sentiment analysis** for better data-driven decision-making.
- Preprocessed text data by **cleaning**, **tokenizing**, **stemming**, and **removing stopwords**, resulting in a **20%** improvement in model accuracy through cleaner data inputs.
- Implemented a **BERT-based** sentiment classifier, achieving an accuracy of **84%** in predicting tweet sentiments and evaluated performance with **classification reports** and **confusion matrices** for in-depth model analysis.

**Student Retention Analysis** SLU

January/2024 – March/2024

- Processed and analyzed **6,597 student records** with **37 variables** using **Python libraries (Pandas, NumPy)** for data cleaning, preprocessing, and **exploratory data analysis (EDA)**. Identified key patterns and trends in factors such as major, gender, grades, and attendance that influence student retention rates.
- Developed predictive models using machine learning techniques (**Logistic Regression**, **Ensemble Learning**, **Gradient Boosting**, **Random Forests**) and **deep learning frameworks (TensorFlow)**. Improved prediction accuracy by **97%** and identified students at risk of dropping out, incorporating **PCA for dimensionality reduction**.
- Created **10+** visualizations with **Matplotlib** and **Seaborn** to effectively communicate findings related to student performance and retention strategies. Presented **feature importance** for models (**SVM**, **Random Forests**) and facilitated data-driven decision-making processes for stakeholders.