TEJ GANGUPANTULA

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EDUCATION

University of California, Santa Barbara September 2023 – December 2026
B.S. Statistics and Data Science *Santa Barbara, CA*

- **GPA:** 3.6
- **Relevant Courses:** Data Science with R/SQL, Probability and Statistics, Data Science Concepts and Analysis, Regression Analysis, Statistical Machine Learning, Stochastic Models & Applied Probability, Calculus I-III, Linear Algebra, Differential Equations

SKILLS

Languages: Python, R, SQL, Java, Javascript, HTML
Libraries: Scikit-learn, TensorFlow, pandas, NumPy, Matplotlib, Seaborn, Streamlit, OpenAI, Langchain
Tools/Frameworks: Git, Jupyter, Google Cloud Platform (GCP), Django, Tableau

PROFESSIONAL EXPERIENCE

AI Engineer Intern June 2025 – September 2025
Agentman *Berkeley, CA*

- Built and deployed agentic AI applications for healthcare operations, using HIPAA APIs and GCP, reducing manual processing by ~70% and saving practices $20K+ per user annually.
- Designed operational agents, cloud pipelines, and prototypes of screen agents that connected APIs, EHR data, and web automation tools, streamlining workflows and saving 3+ staff-hours daily while boosting reliability through improved QA and schema validation.
- Owned full initiatives end-to-end, collaborating across product and engineering teams, and gained expertise in cloud architecture, API integrations, and healthcare compliance workflows, strengthening both technical and communication skills.

Machine Learning Intern July 2024 – September 2024
FusionCare *Davis, CA*

- Partnered with a private medical practice to design and deploy a Gen AI-powered Python application that analyzed patient notes, producing visit summaries and tracking outcomes, improving care plan evaluations by 30% while saving clinicians 2–3 hours weekly.
- Developed and implemented predictive models with scikit-learn and random forest algorithms, achieving 80–85% accuracy in forecasting patient outcomes, which both reduced manual chart review time and supported more proactive, data-driven patient care.
- Integrated advanced GPT models into clinical workflows, enhancing scalability and cutting documentation turnaround by ~40%, enabling physicians to manage higher patient volumes without sacrificing quality of care.

PROJECTS

Brain Tumor Classification | *Python, TensorFlow, Scikit-learn, NumPy, pandas* January 2025 – April 2025

- Developed a Convolutional Neural Network model using TensorFlow to classify brain tumors (glioma, meningioma, pituitary tumor, no tumor) with 95% accuracy on test data, leveraging a dataset of 7,000+ MRI scans.
- Implemented data preprocessing and augmentation techniques (rotation, flipping, brightness adjustment) to improve model performance and ensure robust predictions; visualized results using matplotlib, scikit-learn and seaborn.
- Demonstrated potential to revolutionize diagnostics by enabling early, accurate, and accessible AI-powered brain tumor classification, supporting personalized care and improved patient outcomes.

NBA Finals Outcome Prediction Analysis | *Python, Scikit-learn, NumPy, pandas* April 2025 – June 2025

- Developed a Random Forest classification model in Python to simulate and predict 2025 NBA Finals outcomes, achieving 62% test accuracy using team-level regular season and playoff metrics.
- Engineered a Monte Carlo simulation to estimate championship probabilities over a best-of-seven series, predicting a 75.5% chance of the Oklahoma City Thunder winning against the Indiana Pacers (24.5%).
- Cleaned, processed, and analyzed historical NBA data with pandas, numpy, and scikit-learn, enabling interpretable model outputs and supporting data-driven sports analytics.