TEJ GANGUPANTULA

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EDUCATION

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

- **GPA:** 3.55
- **Relevant Courses:** Intermediate Python, Data Science with R/SQL, Probability and Statistics, Data Science Concepts and Analysis, Regression Analysis, Calculus I-III, Linear Algebra, Differential Equations

PROFESSIONAL EXPERIENCE

Agentman — **Berkeley, CA**
AI Engineer Intern — *June 2025 – Present*

- Leveraged the company's agent-building technology to design and deploy an AI-powered eligibility agent using an API-first HIPPA transaction service and GCP functions, automating pre-visit verification workflows and cutting manual processing time by ~70%, saving organizations an estimated $20K+ per user annually.
- Led QA testing and optimization of agentic workflows, refining error handling and schema validation to reduce verification errors and improve overall reliability of automated operations.
- Designed scalable agentic architectures integrating APIs, EHR data, and Google Sheets pipelines, enabling batch checks that saved 3+ staff-hours daily and boosted both scalability and ROI.

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

- 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.

UCSB Campus Concessions — **Santa Barbara, CA**
Concessions Event Staff — *February 2024 - Present*

- Collaborated with the Event Staff to deliver high-quality food service to guests at various on-campus events (athletic events, tournaments, concerts).
- Ensured smooth operations in a fast-paced environment, demonstrating strong problem-solving and multitasking skills.

PROJECTS

Brain Tumor Classification — *January 2025 – April 2025*

- Developed a Convolutional Neural Network model using TensorFlow and Keras 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 — *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.

ACTIVITIES & LEADERSHIP

Data Science UCSB — **Santa Barbara, CA**
Member — *September 2024 – Present*

SKILLS

Languages: Python, R, SQL, Java, Javascript, HTML

Libraries: Scikit-Learn, Tensorflow, Keras, Pandas, Numpy, Matplotlib, Seaborn, Streamlit, OpenAI, Langchain

Tools/Frameworks: Git, Jupyter, GCP, Django, Tableau