

Katta Sai Pranav Reddy

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EDUCATION

- **Anurag University** Hyderabad, India
B.Tech in Artificial Intelligence and Machine Learning; CGPA: 8.29 09/2021 – 04/2025
- **Sri Chaitanya Junior College** Hyderabad, India
MPC (Maths, Physics, Chemistry); Percentage: 98% 06/2019 – 05/2021

SKILLS

- **Tools:** MLflow, DVC, Docker, Git, GitHub Actions, AWS (EC2, S3, ECR), FAISS, Pinecone, Hugging Face, LangChain, LangSmith, FastAPI
- **Programming & Technical Skills:** Python, SQL, HTML, CSS, Scikit-learn, TensorFlow, Keras, Statistics
- **Data Science & Machine Learning:** Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Model Training & Evaluation, Hyperparameter Tuning, Clustering, MLOps, Semantic Search, Retrieval-Augmented Generation (RAG), CNN, RNN, GPT, Transformers, Fine-Tuning, Prompt Engineering
- **Data Visualization & Analysis:** Pandas, NumPy, Matplotlib, Seaborn

ACHIEVEMENTS

- Achieved **All India Rank 5262** in GATE 2026 – Data Science and Artificial Intelligence (DA). [\[Scorecard\]](#)

INTERNSHIPS

- **AI Variet** [\[Certificate\]](#)
Data Science Intern 04/2026 – 07/2026
 - Engineered a machine learning pipeline for Alzheimer's disease classification, achieving a 93% recall rate by building and hyperparameter tuning a Random Forest model.
 - Conducted comprehensive Exploratory Data Analysis (EDA) to uncover key predictive features, optimize data preprocessing workflows, and enhance overall model interpretability.
- **Unified Mentor Pvt. Ltd.** [\[Certificate\]](#)
Data Science Intern 09/2024 – 10/2024
 - Engineered features and optimized machine learning models to predict employee attrition, identifying key turnover drivers through comprehensive data preprocessing.
 - Designed dashboards to visualize attrition patterns and presented strategic, data-driven recommendations to HR stakeholders to enable proactive workforce retention.

PROJECTS

- **BigBasket SmartCart – AI-Driven Shopping Assistant** [\[GitHub\]](#)
 - Built a RAG-based AI shopping assistant enabling semantic product search with 95% retrieval accuracy.
 - Engineered a FAISS and Cross-Encoder retrieval pipeline, achieving a 0.89 relevance score.
 - Designed a scalable architecture using FastAPI and Docker, reducing response latency to ~2 seconds.
 - Automated CI/CD pipelines with GitHub Actions and AWS EC2, reducing deployment time by 40%.
- **Netflix Customer Churn Prediction – End-to-End ML System** [\[GitHub\]](#)
 - Developed an ML pipeline to predict customer churn, achieving 99% recall via hyperparameter tuning.
 - Conducted in-depth EDA to uncover key churn drivers, enhancing model interpretability and strategy.
 - Established MLOps workflows using DVC, AWS S3, and MLflow for robust experiment and artifact tracking.
 - Deployed a containerized FastAPI REST API with automated GitHub Actions CI/CD to AWS EC2.