

Prashanth Kumar Gunda

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EDUCATION

University of Cincinnati, Carl H. Lindner College of Business

Cincinnati, Ohio

Master of Science in Business Analytics

Indian Institute of Technology, Hyderabad

Hyderabad, India

Master of Technology in Engineering

SKILLS

- **Certifications:** Azure Enterprise Data Analyst Associate, Azure Fundamentals, Azure Data Engineer Associate
- **Analytical, and Visualization tools:** SQL, R, NoSQL, Excel, Tableau and PowerBI
- **Programming tools:** Python, MATLAB, Java, Scala, Streamlit, HTML, CSS, C, C++
- **Deep Learning Libraries, and Architectures:** PyTorch, Keras, TensorFlow, Transformers, CNN, VGG16
- **Generative AI :** NLP, NLTK, spaCy, LLMs (GPT, BERT, T5), RAG, Prompt Engineering, LangChain, RAGAS
- **Machine Learning:** Regression, Clustering, Classification, Gradient Boosting, Neural Networks, Sklearn, Scipy

WORK EXPERIENCE

Data Scientist Intern.

Apr 2024- Jun 2024

GEN1E Life Sciences, INC

San Francisco, CA

- Analyzed **300K unique** patient records and used readily available clinical parameters to build an **SVM** model classifying **ARDS** endotypes, projecting a **30% reduction** in mortality rate for a major hospital chain.
- Developed **ML pipeline** using **MLOps** to identify ARDS patient endotypes and utilized **GridSearchCV** for hyperparameter tuning, achieving the highest **ROC-AUC** score of **0.74** with an **SVM model**.
- Built a self-servicing **Power BI** dashboard to **automate** gene-drug-disease mapping, allowing for quick visualization of genes, reducing data retrieval time from **minutes to seconds**, compared to **graphite** library in **R**.

Graduate Assistant

Aug 2023-Dec 2023

University of Cincinnati

Cincinnati, OH

- Analyzed a dataset of **10M** electronic health records (EHRs) using **SQL and PyTorch**, and designed a **novel** pipeline using **Clinical BERT** for advanced **NLP** analysis, optimizing the extraction of social determinants for diabetes.
- Optimized **Clinical BERT** with **PEFT & LoRA** leading to **30% decrease** in computational time.
- Built a chatbot utilizing **RAG** and **LangChain** techniques and **Streamlit** to fetch patient records enabling user interaction about social determinants **reducing time** to access patient insights by **25%**.

Data Analyst

Mar 2022 – Jul 2023

Infosys

Hyderabad, India

- Orchestrated a **pipeline** for identifying **fraudulent** insurance claims using a database exceeding **100M** records, with data curated and compressed using **Hadoop** and **Hive**, thus reducing data processing time by **40%**.
- Utilized **ETL** tools and integrated **SAS** for advanced data processing and preprocessing.
- Conducted **EDA** using Python libraries, and employed **Spark** with **Hadoop** for **distributed data** processing.
- Implemented **ensemble** techniques on **Random Forest** and **XGBoost** to achieve a model of **78%** accuracy in **fraud detection**, contributing to a projected **\$1.5M** increase in annual company revenue.
- Deployed the final model using **AWS**, & integrated **MLflow** for monitoring, increasing efficiency by **35 %**.
- Built an **ARIMA** model for forecasting claim amounts using **statsmodels**, achieving forecast accuracy upto **70%**.
- Employed **Tableau** to forecast data and **KPIs** like loss ratio and pure premium, thus saved the firm **\$500,000**.

Data Analyst

Jul 2021 –Jan 2022

BYJU'S

Bengaluru, India

- Designed a web platform using **HTML**, **CSS**, and **JavaScript** to capture and log user engagement times, tracking over **50K** interaction patterns &, employed **A/B testing** to optimize interface elements.
- Processed the engagement data using **SQL**, applied **K-Means clustering** to identify **5 distinct patterns (silhouette score of 0.84)**, and optimized content delivery strategies, leading to **20%** increase in engagement.

Research Associate

Jul 2020 – Jul 2021

Indian Institute of Technology, Hyderabad

Hyderabad, India

- Developed unsupervised model (**K-means**) that achieved **86%** accuracy in predicting optimal cluster membership under varying environmental conditions like liquid density, temperature and viscosity on bubble interactions.