Mubarakpur Keerthi

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Education

Indian Institute of Technology Dharwad (IIT DH) — Karnataka, India
Bachelor of Technology in Computer Science and Engineering — *Dec 2022 – Present*

Nxtwave Disruptive Technologies — Online
Industry Ready Certification — *May 2024 – Ongoing*

Experience

AI Evaluation Intern — Nov 2025 – Present
LLUMO AI — *Remote*

- Assisted in developing multi-agent evaluation pipelines by assembling LLM agents using LangChain and integrating them with the LLUMO SDK.
- Supported continuous evaluation of LLM behavior using real-world simulated datasets to ensure safe and reliable model outputs.
- Utilized RAG (Retrieval-Augmented Generation) and internal LLM-based modules to detect and reproduce failure modes during agent testing.Provided structured feedback and UI suggestions that improved the usability and workflow of the internal evaluation platform.

Projects

Student Performance Indicator *(GitHub)* — ML Project
Tech Stack: Python, Pandas, NumPy, Scikit-learn, CatBoost, XGBoost, Matplotlib

- Built an end-to-end ML pipeline on Kaggle's student performance dataset to predict student test scores.
- Performed EDA and visualization to study the impact of gender, ethnicity, parental education, and lunch type on scores.
- Engineered new features (total score, average) and applied preprocessing (scaling, encoding).
- Trained multiple regression models (Linear, Random Forest, CatBoost, XGBoost) and achieved $R^2 = 0.87$.

ANN-Classification *(GitHub)* — DL Project
Tech Stack: Python, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib

- Developed an Artificial Neural Network (ANN) model to predict customer churn for a retail bank, experimenting with multiple architectures and hyperparameters.
- Implemented Keras-based ANN with multiple hidden layers (ReLU activation) and sigmoid output for binary classification.
- Used Early Stopping and TensorBoard monitoring to optimize training and prevent overfitting.
- Deployed the trained ANN model as a streamlit web application with an interactive UI for end users.

Certifications

Machine Learning Specialization — Udemy — Certificate Link
Completed a Data Science bootcamp, gaining hands-on experience in core data science skills including data analysis, Machine learning, Deep learning and project implementation

Skills & Interests

Languages: Python, SQL
ML & DS: Supervised / Unsupervised Learning, Regression, Classification, Feature Engineering,Model Evaluation
Frameworks: TensorFlow, Scikit-learn, CatBoost, XGBoost
Data Tools: Pandas, NumPy, Matplotlib
Soft Skills: Communication, Teamwork, Problem Solving, Adaptability
Interests: ML Applications, Hackathons