Abhishek Teja Goli

3706 Kettering Ct, Fairborn, OH- 45324 || E-mail || 937 443 7879 || LinkedIn || GitHub

EDUCATION

- **Wright State University** — Dayton, OH
  Master of Science in Data Science | GPA: 4.0/4.0 — *Aug 2024 - May 2026*
- **Mahatma Gandhi Institute of Technology** — Telangana, India
  B. Tech in Computer Science and Engineering (Data Science) | GPA: 3.06/4.0 — *Aug 2020 – June 2024*

TECHNICAL SKILLS

Programming Languages	: Python, SQL, Java
Database	: MySQL, PostgreSQL
AI/ML Expertise	: Machine Learning, Deep Learning, LLMs, RAG, NLP
Cloud & Tools	: Microsoft Office, AWS, Power BI, Azure

WORK EXPERIENCE

DataBeat — Telangana, India

Data Analyst Intern — *Feb 2024 – July 2024*

- Developed a leaf disease prediction system using ResNet architecture, delivering the solution to client Envu.
- Built and trained a neural network model for leaf disease detection, improving accuracy for agricultural clients.
- Refactored data ingestion code using Python and Django, enhancing process efficiency and learning about GAM and data warehouse management.
- Optimized ETL pipelines using Azure Data Factory, improving data processing for various projects.
- Contributed to PoCs by extracting text data from PDFs using Python libraries like Tesseract and PyPDF.
- Automated data extraction for Ad reports for Nexstar, reducing processing time by 50% and improving forecast model accuracy.
- Assisted in model building and created visualizations for client Ad reports, enhancing decision-making capabilities.

PROJECTS

Organization-Specific LLM Application | Link — Dec 2024 – Present

(Olllama Llama 3.2, Crawl4AI, ChromaDB, SQLite3, RAG, Python, APIs)

- Developed an application that allows organizations to upload their data (web pages, databases, PDFs, etc.) and generate a ready-to-use, customized LLM.
- Integrated ChromaDB as a vector database and SQLite3 for efficient data storage and retrieval, ensuring seamless processing of large datasets.
- Designed a user-friendly interface to enable easy data upload and instant interaction with the tailored LLM.
- Ensured scalability and robustness, making the application adaptable to various industries with minimal modifications.

Smart Movie Recommendation System | Link — Aug 2023- Jan 2024

(Tensorflow, NumPy, pandas, Flask)

- The project goal is to develop an Emotion-based Movie Recommender System (E-MRS) using NLP, RNNs and LSTM to provide personalized recommendations based on user emotions.
- Implemented a Flask server to enable smooth communication between the machine learning backend and the web frontend.
- Evaluated the recommendation system's performance using precision, recall, and F1 score, achieving an accuracy of up **to 95%** to ensure accuracy and reliability.
- Built a web-based platform with HTML, CSS and JavaScript, with Python handling backend processing for personalized movie recommendations.

FaceTrack: Real-Time Attendance Management System | Link — Apr 2023 – Jul 2023

(OpenCV, NumPy, Scikit-learn))

- Developed a real-time attendance management system using facial recognition, employing Haar Cascade for face detection and KNN for face feature recognition
- Enhanced system scalability and accuracy, with potential for deployment in workplaces and educational institutions.
- Designed a robust database structure to store and retrieve facial data efficiently, ensuring fast and accurate identification.

Mental Health Severity Classification System| Link — Dec 2022 – Mar 2023

(Scikit-learn, Pandas, NumPy, PCA, K-Fold Cross-Validation)

- Developed a machine learning-based system to classify mental health conditions into five severity levels (Normal, Mild, Moderate, Severe, Extremely Severe) using the DASS-42 and Ten Item Personality Inventory datasets.
- Applied Decision Tree, Naive Bayes, and K-Nearest Neighbor algorithms, with Decision Tree achieving the highest classification accuracy. Used PCA for dimensionality reduction and K-Fold Cross-Validation to evaluate model performance.

CERTIFICATIONS

- Certified in **Data Science** through OpenWeaver ICT Academy's virtual internship.
- Certified by NPTEL in **Natural Language Processing** (NLP).
- Earned Python and Machine Learning certification from **Kaggle**.
- Certified in Python programming by **HackerRank**.