Maaz Uddin

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LinkedIn: https://www.linkedin.com/in/maaz-uddin-18a8b222a/ Portfolio: https://maazuddin1.github.io/portfolio_maaz/

Leetcode: https://leetcode.com/u/maazuddin173/ GitHub: https://github.com/Maazuddin1

Summary

Passionate computer science engineer with experience in programming production-level web applications, combined with machine learning, data analysis, and software engineering. Strong foundation from data preprocessing to model deployment. Experienced in developing predictive models, building recommendation systems, and applying advanced analytics to solve real-world problems.

Skills

Programming Languages:	Python, C, SQL
Libraries/Frameworks:	Scikit-learn, Seaborn, Matplotlib, Flask, PyTorch, Pandas, NumPy
Tools:	PyCharm, VS Code, GitHub, Jupyter Notebook, Google Colab, Microsoft tools
Databases:	MS SQL Server, PostgreSQL
Soft Skills:	Problem-solving, Leadership, Time Management, Project Management

Education

KG Reddy College of Engineering and Technology, Hyderabad, India 2021 – 2025
- Bachelor of Technology in Computer Science (GPA: 3.28/4)
- **Key Courses:** Computer Networks, Data Structures, DBMS

Ushodaya Junior College, Nizamabad, India 2019 – 2021
- PCM (Physics, Chemistry, Mathematics) (GPA: 3.62/4)

Experience

Oracle Apex Trainee, ProwessIQ Information Systems, Chennai Feb 2025 – May 2025
- Enhanced a recommendation system for tata tanishq jewelry images with 95% accuracy on a 200K+ image dataset.
- Created image embeddings for similarity checks, optimizing retrieval speed by 35% over baseline methods.
- integrated model with Oracle Apex for production, reducing query response time by 40%.

Data Analyst Intern, Ozibook Tech Solutions, Bangalore Sep 2024 – Oct 2024
- Collected, cleaned, and analyzed large datasets, driving actionable insights that increased client decision accuracy by 25%.
- Lead a team of 10+, streamlining project execution and boosting team productivity by 20%.
- Collaborated with clients to define project scope, delivering solutions ahead of schedule by 15%.

Python Intern, Forage (Virtual) Apr 2023 – May 2023
- Enhanced interactive visualizations of COVID-19 data, identifying key trends and presenting insights to stakeholders.
- Automated data extraction from government sources, reducing manual effort by 30%.
- https://drive.google.com/file/d/1wj59WqfuR2gNC22bzyN73ZwPGadFeohB/edit

Personal Projects

Lingua stream - a multilingual video and audio Dubbing tool (Run project)

- Improved an end to end multilingual translation pipeline that transcribes, translates, and dubs videos using AssemblyAI, GoogleTranslator and gTTS.
- Leveraged FFmpeg, PySRT, and advanced audio merging strategies to ensure precise sync between video, audio, and subtitles.
- Designed an interactive Gradio interface enabling users to upload videos, select languages, and receive real-time status updates.
- Merged robust logging, error handling, and fallback mechanisms, alongside **CI/CD pipelines** for smooth deployment and scalability.

GitHub link: https://github.com/Maazuddin1/LinguaStream/

- **Tools**: Python, FFmpeg, Gradio, AssemblyAI, gTTS, deep-translator, PySRT, CI/CD (GitHub Actions), Hugging Face Spaces.

Tata Tanishq jewelry Recommendation System (Run project)

- Built an e-commerce-based deep learning image recommendation engine using EfficientNet-B 0 and FAISS, trained on 124,000+ jewelry images, to deliver real-time visual similarity suggestions with sub-second latency (<100 ms).
- Implemented CI/CD pipelines (GitHub Actions) for automated testing and model updates, reducing deployment downtime by 40% and ensuring seamless scalability for future growth.
- Incorporated a user-friendly interface supporting image uploads, URLs, reference inputs, with dynamic displays of product

metadata (price, category, product id).
- Optimized the pipeline for scalability, handling 1M+ product entries efficiently using advanced FAISS indexing techniques.
GitHub link: https://github.com/Maazuddin1/Tanishq_jewelry_recomm_system
- **Tools**: PyTorch, FAISS, Gradio, OpenCV, Pandas, NumPy, CI/CD (GitHub Actions), Hugging Face Spaces.

AI-Powered Predictive and Suggestive Model for Diabetes (Run project)

- Built and optimized an ML model achieving 88% prediction accuracy by employing feature engineering and model tuning.
- Integration of GPT for personalized health assistance, including diet planning, exercise routines, and checkup reminders based on patient conditions.
- Visualized critical health trends to assist healthcare professionals in early diagnosis.
GitHub link: https://github.com/Maazuddin1/Diabetes_prediction
- **Tools**: Pandas, Matplotlib, Scikit-learn, Flask, CI/CD piplines

Content-Based Movie Recommendation System (Run project)

- Engineered a personalized recommendation system leveraging NLP and machine learning algorithms, enhancing user engagement by 35%.
- Analyzed 11+ movie attributes, optimizing filtering mechanisms for increased accuracy.
- Deployed model using Docker on Hugging Face.
GitHub link: https://github.com/Maazuddin1/Content-based-Movie_Recommendation_system
- **Tools**: Scikit-learn, Pandas, NumPy, NLTK, Git Actions.

Bangalore Housing Market Forecasting (Run project)

- Processed and examined 13,000+ entries to predict housing prices with 88% accuracy through advanced regression techniques.
- Deployed the model using integrated CI/CD pipelines, reducing deployment time by 30% and enhancing usability by 40%.
GitHub link: https://github.com/Maazuddin1/Banglore_RealEstate_forecast-using-CICD-piplines
- **Tools**: Scikit-learn, Seaborn, Pandas, GitHub Actions.

+More projects repositories

Certificates and Achievements

Participated in Sparkcamp hackathon, Tech Mahindra,HYD Apr 2025
https://drive.google.com/file/d/17bgHzOPWvW72NQsW71r_bE8ffYKbZ70k/

Participated in National level hackathon, BITS Pilani,HYD Mar 2025

International Conference on Multidisciplinary Research and Sustainable Development (ICMED) 2025, India Mar 2025
-https://drive.google.com/file/d/1l9Y7vyIuwKVx67Tx3Z4dL4Dhsvr-DEcR/
-https://drive.google.com/file/d/1l4uRMp8lcpwqH5hpZVKvXIv8oKX3wmvm/

IEEE Project Expo 2023, Chennai, India Oct 2023
-https://drive.google.com/file/d/1p4mvPKZxyhilnqqFuJoCdsL4Whq0vQBR/

Data Science and Machine Learning Certification Feb 2023
-https://drive.google.com/file/d/1BwkksJ_qTzGK3aaZQgBRDOUKTu_uAwgg/