Maleeha Imran

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY
Master of Science in Computer Science, Aug 2021 – Aug 2025
Specialization in Machine Learning
Related Coursework: Software Analysis, AI Ethics and Society, Machine Learning, Educational Technology, Human Computer Interaction, Digital Health Equity, Deep Learning, Computer Vision

UNIVERSITY OF CALIFORNIA, IRVINE
Bachelor of Science in Computer Science, Sep 2017 – Dec 2020
Related Coursework: Advanced Computer Networks, Principles of Operating Systems, Machine Learning and Data Mining, Project in AI, Applications of Probability in CS, AI in Biology and Medicine, Computational Geometry

EXPERIENCE

Software Engineering Intern
Stealth Startup, *Mar 2024 – Jul 2024*
- Utilized OpenAI API and Playground for prompt engineering
- Developed core application functionality in Python, Node.js, and Express.js, including backend API integration.
- Conducted research on enhancing prompt engineering pipelines for GPT-4 and Claude 3 models.
- Contributed to the project's overall architecture, ensuring scalability and performance.

Informatics Researcher
University of California-Irvine, *Jul 2020 – Jul 2021*
- Collaborated on research under the guidance of Dr. Krone-Martins.
- Derived valuable insights from bibliometric data acquired from the NASA ADS database.
- Gathered, arranged, processed, and analyzed data using machine learning techniques.
- Future developments include work on LLM powered chat for researchers.

ML Intern
STEM-Away, May 2020 – Jul 2020
- Led a global team of ML interns in consecutive month-long projects.
- Built an NLP classifier using the Google's BERT transformer model trained on Discourse forum data.
- Offered technical insights, performed web scraping and acquired data from Discourse forum.
- Conducted a virtual webinar on data mining and web scraping, accessible to STEM-away interns.

PROJECTS

ADS Chat
Building a chatbot for astronomy/astrophysics research powered by NASA ADS, Llama, and Langchain.

Effectiveness of Shape and Texture Biased Datasets on Medical Image Recognition
Compared the effectiveness of training CNN models on stylized image data with regards to medical image data

Effects of Different Textual Representations on Sentiment Analysis
Evaluated the effects of different textual representations on sentiment analysis models.

Search Engine
Built a search engine with web parsing, TF-IDF scoring, cosine similarity, and ranking.

SKILLS

Code: Python, Java, C/C++, SQL, HTML, CSS, JavaScript, Node.js
Libraries: Pandas, NumPy, scikit-learn, matplotlib, Keras, OpenCV
Frameworks/Tools: Git, Linux, Jupyter, PyTorch, Django, TensorFlow, Docker, REST APIs, React, AWS