Fatima Mehvash

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SUMMARY

Innovative AI/ML professional with hands-on experience in developing and deploying intelligent solutions. Skilled in building end-to-end machine learning pipelines, optimizing model performance, and applying computer vision and data analytics to solve real-world problems. Adept at transforming complex datasets into actionable insights and delivering AI-driven solutions that create measurable impact.

TECHNICAL SKILLS

Languages: Python, R, Java, C, SQL
Tools & Libraries: TensorFlow, Keras, OpenCV, Tableau, Git, Jupyter, MATLAB
Web: JavaScript, HTML, CSS
Cloud & Systems: AWS/GCP, Agile, Full SDLC

PROFESSIONAL EXPERIENCE

Data Analyst & Machine Learning Engineer | ACES, Riyadh, S.A. | Apr 2022 – Jul 2023
- Built AI-powered computer vision and deep learning solutions including person detection, smoke detection, and oil spillage segmentation, enhancing client safety .
- Developed real-time ML pipelines and predictive analytics for network optimization, churn prediction, and anomaly detection using TensorFlow, Python, and SQL.
- Created interactive dashboards in Tableau & Python, enabling data-driven decisions for major enterprise clients.
- Collaborated on telecom-to-IT transformation projects, delivering edge-deployed AI/ML solutions and automated ticketing systems.

Python Instructor | Tekie, India | Jun 2021 – Mar 2023
-Successfully mentored over 200 aspiring developers, transforming beginners into confident Python programmers through hands-on projects including advanced chatbots and complex automation tools.
-Led dynamic, high-energy live coding workshops attended by large groups, delivering expert code reviews and troubleshooting sessions that dramatically improved student performance and coding proficiency.

PROJECTS

Question Answering Model :
- Developed a QA model using SQuAD dataset and fine-tuned transformer architecture.
- Currently creating a custom transformer-based model for company-specific data like manuals and invoices.
Synopsis Model:
- Built a hybrid summary model using ML, CNN, and NLP to assist visually impaired individuals.
- Generated summaries from videos, images, text, and audio with 92% accuracy.
Facial Emotion & Drowsiness Detection:
- Created a real-time model using TensorFlow and Keras to detect emotions and drowsiness.
- Achieved 96% accuracy and implemented alarm alerts for drowsiness detection.

LEADERSHIP & ACTIVITIES

Computer Society of India (CSI)
- Student President | Aug 2021 – Aug 2022: Oversaw event planning, operations, and tech teams.
- Head of Human Resources | Mar 2019 – Aug 2021: Managed HR activities and team collaborations.
- Tech & Creative Team Member | Sep 2018 – Mar 2019: Contributed to technical and creative initiatives.

EDUCATION

M.S. in Computer Science (AI Track) | Binghamton University, NY | 2023–2025
B.E. in Computer Science (Data Science Track) | Osmania University, India | 2018–2022