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Muhammad Ahmad
Machine Learning Engineer

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PROFESSIONAL SUMMARY

Recent Computer Science graduate with strong foundation in machine learning and software development. Demonstrated experience in building applications using computer vision libraries, data analysis, and creating user-friendly interfaces. Passionate about applying ML technologies to solve practical problems, with particular interest in gesture recognition and sentiment analysis.

SKILLS

Languages: Python (Advanced), C++, SQL
ML/CV: MediaPipe, OpenCV, TensorFlow, PyTorch, Scikit-learn
Data: Pandas, NumPy, Matplotlib, Seaborn
Tools: Git, Linux, Docker

TECHNICAL EXPERIENCE

GestuNova | Computer Vision Project
Lead Developer   *Sept 2023 - June 2024*

- Developed a Linux-based application that maps hand gestures to system commands using MediaPipe's hand tracking capabilities
- Created an intuitive GUI for users to customize and bind specific gestures to system commands and keyboard shortcuts
- Implemented system integration layer to execute commands based on recognized gestures
- Built robust event handling system to manage gesture detection events and command execution

Lahore Property Analysis | Data Science Project
Developer   *Nov 2024*

- Developed data processing system for standardizing property metrics across listings
- Created statistical and spatial analysis pipeline using Python, Matplotlib and Seaborn
- Implemented geocoding system for location-based market segmentation
- Generated detailed visualizations and reports for property valuation patterns

UK Crime Data Analysis | Big Data Project
Developer   *Oct 2024*

- Processed millions of street-level crime records across multiple UK counties using Apache Spark
- Implemented SQL-based analysis pipelines for efficient data processing
- Developed automated county mapping and jurisdiction standardization
- Created visualization system for crime trends and patterns analysis

Hotel Review Sentiment Analysis | NLP Project
Developer   *Jan 2024 - Mar 2024*

- Developed sentiment analysis pipeline using Python and NLTK for processing hotel reviews
- Implemented robust data cleaning algorithms for handling inconsistent review formats
- Created word cloud visualizations for theme identification in customer feedback
- Generated granular ratings system for specific service aspects analysis

Chess Blunder Detection | Python Project
Developer   *Feb 2023 - Apr 2023*

- Built a script for analyzing chess games using Stockfish engine integration
- Implemented recursive algorithm for variation tree analysis and blunder detection
- Developed automated analysis file generation for critical positions
- Created tournament history processing pipeline for pattern identification

EDUCATION

Punjab University College of Information Technology (PUCIT)   *2020 - 2024*

- B.S. Computer Science
- Key Courses: Machine Learning, Computer Vision

ADDITIONAL ACTIVITIES

- Research Paper: Comparative Analysis of Hand Gesture Recognition Models (2024)
- Content Writer: FCIT Information and Media Society (FIMS) (2022)
- Participant: PUcon Coding Competition (2023), Rookie Game Jam (2023)