Azeem Aslam

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ABOUT ME

Machine Learning Engineer with a strong background in deep learning and computer vision, evidenced by developing a high-efficiency CNN YOLOv9 model for urban vehicle classification. Holds an MSc in Internet of Things with Data Science and diverse project experience in model development and data analysis. Adept at Python programming and deep learning frameworks, aiming to deliver innovative solutions in supervised and reinforcement learning projects.

DIGITAL SKILLS

- **Programming & Tools**: Python, SQL, Git
- **Data Science & Machine Learning**: Pytorch, Scikit-learn, NumPy, Pandas, Deep Learning, Reinforcement Learning, Statistical Analysis
- **Data Visualization & BI**: Matplotlib, Power BI
- **Web Development**: Knowledge of HTML, CSS, Bootstrap, JavaScript

WORK EXPERIENCE

WSP Global and Eden Smith   Jun 2024 - Aug 2024
Research intern   *Manchester*
- Developed and trained a CNN YOLOv9-based deep learning model using Python for automated vehicle classification in urban environments, enhancing traffic monitoring accuracy.
- Achieved mAP50 of 0.867 at 18 FPS, demonstrating efficient model performance and real-time analysis capabilities.
- Classified diverse vehicle types, including bicycles, motorbikes, cars, and trucks, by addressing challenges such as occlusions and variable lighting conditions.
- Identified correlations between vehicular traffic and retail footfall to offer actionable insights for data-driven urban planning and congestion management.
- Collaborated with research teams on computer vision projects, contributing to advancements in AI-driven transportation systems.

Veritas Education Recruitment   Mar 2024 - Present
Supply Teacher   *Manchester*
- Delivered and prepared lessons to ensure continuous learning in the absence of regular teachers.
- Managed student behaviors effectively, fostering a respectful and inclusive classroom environment.

Punjab Safe Cities Authority   Jul 2017 - Aug 2023
Communication Officer   *Lahore*
- Managed and analyzed over 10,000 hours of CCTV footage using data analysis techniques to ensure compliance with data protection regulations.
- Examined electronic data from Integrated Video Systems (IVS) and Crime Detection databases to identify patterns, contributing to a 15% increase in crime resolution rates.
- Enhanced data accuracy and completeness by 25% through detailed cleaning and preparation, applying rigorous statistical analysis methods.
- Developed visual reports and dashboards that reduced report preparation time by 30%, facilitating efficient cross-team communication and decision-making.
- Provided critical data insights and clear visual presentations to law enforcement authorities, aiding in over 200 successful case resolutions.

EDUCATION AND TRAINING

University of Salford   Sep 2023 - Nov 2024
MSc in Internet of Things with Data Science, Natural sciences, mathematics and statistics
- **GPA:** Distinction
- **Coursework:** Big data tools and techniques, Privacy in IoT devices, Machine learning and data mining, Principle and design of IoT

University of Sargodha   Sep 2012 - Jun 2016
Bachelor of Science in Information Technology, Natural sciences, mathematics and statistics
- **GPA:** A
- **Coursework:** Calculus and analytic geometry, Object-oriented programming, Database management system, Web systems and technologies, Information retrieval

PROJECTS

Industrial Object Detection
- Advanced object detection system for industrial applications.

Diabetes EDA and Modelling

• EDA and predictive modelling for diabetes dataset.

Credit Card Financial Dashboard
• Interactive financial dashboard for credit card data analysis.

Pakistan Crime Analysis
• Crime data analysis and visualization for Pakistan's crime trends.

Clinical Trial Insights
• Data analysis and visualization of clinical trial data using RDD, DataFrames, ML, and SQL.

Traffic Accident Analysis
• Analysis and visualization of traffic accident data to uncover patterns and trends.

HONOURS AND AWARDS

• **[10/07/2022]**: Maven Analytics
  Thinking Like an Analyst
• **[07/11/2023]**: Linkedin
  Machine Learning with Python: Foundations
• **[07/11/2023]**: Linkedin
  Machine Learning with Python: k-Means Clustering
• **[01/10/2023]**: Linkedin
  GitHub for Data Scientists
• **[01/07/2024]**: Linkedin
  Learning Power BI Desktop

LANGUAGE SKILLS

• Urdu (Mother tongue(s)), English (LISTENING C2 READING C2 WRITING C2 SPOKEN PRODUCTION B2 SPOKEN INTERACTION C1)