Mohammed Umairuddin

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Education

Muffakham Jah College of Engineering and Technology Hyderabad, IN
Bachelor of Engineering in Computer Science (Artificial Intelligence and Data Science - CGPA-8.13 *2020–2024*

Experience

Data Science Intern Jun 2023 – Aug 2023
Acmegrade. Pvt. Ltd *Hyderabad, IN*

- Developed a machine learning model using Python, Scikit-learn, TensorFlow, and Prometheus to predict Parkinson's Disease based on patient data, ARM Cortex contributing to cloud-based automation for ITSM.
- Implemented data preprocessing, software development life cycle (SDLC) techniques such as normalization, Project management, and , Microsoft Endpoint Configuration Manager (MECM) using NumPy, Pandas, and SQL queries.
- Utilized REST APIs, MECM, and SQL queries for seamless data integration, achieving operational efficiency with SLA/SLO monitoring, Active Directory (AD) and Automated unit, integration testing.

Cyber Security Intern Sep. 2023 – Nov.2023
AICTE- Edunet Foundation *Hyderabad, IN*

- Designed and implemented steganography techniques using Python, OpenCV, and Pillow to enhance data security in images, supporting ITSM automation. Developed responsive front-end components using React.js, HTML, CSS, and JavaScript for an encryption tool, while ensuring compliance with secure coding practices
- Integrated Bootstrap for better UI/UX and collaborated on enhancing security protocols using Flask, CI/CD, Active Directory, and ServiceNow.

Projects

AI Car Simulation Using NEAT | *Python, NEAT, React, AI-driven solutions, PYgame* Aug 2022 – Feb 2023

- Developed an AI car driving simulation using Python and NEAT (Neuro Evolution of Augmenting Topologies), Generative AI development, Agile methodologies evolve neural networks for autonomous car navigation.
- Leveraged AI techniques and Agile methodologies to optimize learning outcomes and simulate driving in various environments.Integrated Slackbot automation and monitored project performance using SLA/SLO dashboards.

VR Steering | *Python, OpenCV, MediaPipe, MPHands, API, Java, Maven, Git* Aug 2023 – Dec 2023

- Designed a virtual reality-based gaming control system using Python, OpenCV, MediaPipe, and MPHands, implementing real-time hand gesture recognition for immersive gameplay.
- Collaborated in building scalable AI-driven solutions and ensured smooth performance through automated monitoring tools and API integration.

Price Prediction engine- Machine Learning | *Python, Scikit-learn, Pandas, Spring* Dec 2023 - Mar 2024

- Developed Random Forest, achieving 85 accuracy with ML algorithms like Linear Regression and Decision Trees.
- Implemented Agile methodologies to manage timelines and applied cloud microservices for scalable, data handling.

Technical Skills

Languages: Python, Spring, Bash, GO, Java, JavaScript, Rest API, SAP SD, C++, SQL, HTML, CSS, Shell, R
Databases: MySQL, LLM, Power BI, ETL, Zenhub, ITSM, PostgreSQL, Oracle, AWS, MongoDB
Frameworks: ReactJS, Node.js, Carbon components, Jenkins, Kubernetes, ELK stack, Grafana
Developer Tools: Git, DevOps, Tableau, Azure, Agile, Scrum, CI/CD, Salesforce, Flask, Kafka, Jira, Selenium
Libraries: pandas, NumPy, Github, Keras, Scikit-learn, TensorFlow, Matplotlib

Certifications

Harnessing the power of data with PowerBI | Microsoft - 2024
Python programming| Udemy - 2024

Awards/ Achievements

Hackathon Winner | 2NDPrize in IEEE SMC Project Expo - 2023
Silver Medal | Secured 2nd rank in Abacus competition in 10th grade - 2018