BONILKUMAR VIJAYKUMAR TAILOR

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PERSONAL STATEMENT

An enthusiastic and adaptable university student with a strong foundation in teamwork and versatile problem-solving skills, developed through academic projects and diverse work experiences. Technically proficient in Python, including Machine Learning and Deep Learning algorithms, as well as SQL Database Management and Data Visualization. Experienced in assessing options and delivering solutions to meet a range of business needs. Strong communicator with skills cultivated through volunteer work and participation in professional seminars. Eager to contribute expertise and a commitment to continuous learning in a dynamic, results-driven environment.

WORK HISTORY

KFC TEAM MEMBER (Part-Time) September 2023 – Present
KFC, Maghull Ln, Liverpool

- Responsible for greeting customers and efficiently taking orders to ensure a positive dining experience by addressing specific needs. Responsibilities included managing stock control, conducting administrative checks, performing light cleaning, and operating the till. Maintained impeccable presentation and demonstrated flexibility in a fast-paced environment.

SENIOR SYSTEMS ANALYST January 2021 – May 2023
Infosys Limited, Bangalore, India

- Served as a technical expert to analyze the root causes of errors in databases, creating the necessary SQL queries to remediate data issues and provide consistent technical support that delivered positive customer outcomes. Identified system inefficiencies through performance data analysis, and collaborated with clients to determine their needs and devise appropriate software solutions.

PYTHON DEVELOPER December 2019 – November 2020
Sigma Trainers and Kits, India

- Contributed to the development of home automation system kits based on the Internet of Things, including theoretical calculations, deployment, and testing using Python. Debugged and improved existing code to ensure functionality and efficiency.

SKILLS

- **Languages:** Python, R, C, C++
- **Machine Learning & Deep Learning:** Scikit-Learn, TensorFlow, PyTorch
- **Data Manipulation & Visualization:** Pandas and NumPy; Matplotlib, Seaborn, Plotly, Tableau
- **Database Management:** SQL, NoSQL (MongoDB), Oracle SQL Developer
- **Big Data & Cloud:** Familiarity with Apache Spark, Hadoop; Basic knowledge of AWS, GCP, Azure
- **Statistical Analysis:** Regression, Hypothesis testing, Statistical inference
- **Problem-Solving:** Strong analytical and troubleshooting abilities
- **Communication:** Effective in presenting technical concepts and data insights
- **Teamwork & Leadership:** Proven experience in team collaborations and leadership roles

ACHIEVEMENTS

- **Research Paper Submitted:** Multimodal Behaviour Trees for Robotic Laboratory Task Automation, submitted to ICRA 2024, under review.
    - Demonstrated that multimodal behaviour trees (BTs), combined with machine learning and deep learning techniques, are a viable approach for creating closed-loop automation in robotics lab tasks that is modular, adaptive, and interpretable.
- Awarded first rank in the Students' Special Symposium, held under the auspices of INAC-4 and ISRO, for a Research paper titled "Adaptive Water Vending Machine."
- Infosys Certified Data Science using Python Professional certificate.
- Infosys Business Communication Level 5 Certificate.
- IBM Databases and SQL for Data Science with Python Certificate.

PROJECTS

Levelling up the Robot Scientist with Multimodal Skills – Develop a robotic system for capping and decapping sample vials using visual, tactile, and contact sensory data, integrated via machine learning and behaviour trees. Deploy these methods on the Franka-Emika Panda robotic manipulator in our Autonomous Chemistry Laboratory.

Network Traffic Analysis – Developed and implemented a novel approach to Network Intrusion Detection Systems (NIDS) by integrating advanced machine learning models with data visualization techniques to improve the detection and analysis of network security threats.

Adaptive Water Vending Machine – This project is based on the 'Railway Nir Project'. The drawback of the leakage of bottle in the Railway Nir Project is removed by our project. This project works on the raspberry-pi development board with some concept of reinforced learning of machine learning.

Image Classification using Neural Network Model – Implemented image classification, object detection, and image segmentation tasks using CNNs and MLPs for real-time image analysis and image processing.

Student Performance Prediction – Used various machine learning algorithms to predict whether a student will pass or fail a course based on factors such as attendance, grades, and study habits.

New York City Wi-Fi Analysis – Created a dashboard that explore the availability of free Wi-Fi facilities in city of New York with interactive maps in python.

EDUCATION

Master of Science, Data Science and Artificial Intelligence — September 2023 – Present
University of Liverpool, Liverpool

Bachelor of Technology, Electronics & Communications Engineering — September 2016 – May 2020
Dharmsinh Desai University, India

Higher Secondary School Certificate — July 2014 – March 2016
Shree Vasishtha Vidhyalaya, India
