BALA SUBRAHMANYAM BOYINA

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EDUCATION

Lindey Wilson College, Columbia, KY. **Aug 2023 - Present**
Master Of Science In Information Technology and Management *GPA: 4.0/4.0*
SRKR Engineering College, Andhra Pradesh, India. **June 2016 – Sept 2020**
Bachelor Of Technology in Mechanical Engineering *CGPA: 7.83/10*

PROFESSIONAL SUMMERY

- **Python Developer & SQL Database Administrator at TCS with expertise in SQL for database design & maintenance**. Proven manual testing & team collaboration skills deliver high-quality software solutions.
- **Masterful data manipulator (Pandas/NumPy) and visualizer (Matplotlib), adept at extracting actionable insights from complex datasets.**
- Strong object-oriented programming (OOP) skills in languages like Python.
- Proven hands-on experience with SQL for data querying, manipulation, and optimization.
- **Dynamic individual with excellent communication skills, adept at both independent and team-based projects.** Proven ability to adapt to different work styles and achieve objectives collaboratively.
- Strong experience applying Agile methodologies, including Extreme Programming (XP), Scrum, and Test-Driven Development (TDD), to deliver high-quality software iteratively and collaboratively.
- Experienced in harnessing AI technology through effective prompt design, enabling text analysis and information retrieval. Proven ability to derive insightful data for various projects.
- **Experience in robotic control and trajectory planning using MATLAB. Successfully managed a 7-DOF KUKA LBR iiwa 7 R800 robot for an academic project, demonstrating strong skills in motion planning and implementation.**

TECHNICAL SKILLS

Relevant Courses: Computer Vision, Machine Learning, Prompt Engineering.

Programming Languages	Python, MATLAB, C, SQL
Databases	PostgreSQL, Amazon S3
Cloud Technology	Amazon Web Services (AWS)
Libraries	Pandas, NumPy, Matplotlib, Seaborn
Web Technologies	HTML, CSS
Tools and Technologies	Terraform, Docker, Git, Tableau

WORK EXPERIENCE

Tata Consultancy Services **Jan 2022 – Aug 2022**

Assistant Systems Engineer Chennai, India

- Supported Johnson & Johnson clinical research through data analysis.
- Leveraged Python libraries like **Pandas**, **NumPy**, and **Matplotlib** to extract meaningful insights from clinical trial data.
- Performed comprehensive **data analysis** of clinical trials, identifying trends and making data-driven predictions.
- Developed comprehensive reports that translated complex data into actionable insights for stakeholders.
- Demonstrated proficiency in data manipulation, visualization, and statistical analysis for clinical research applications.

Tata Consultancy Services **Nov 2020 – Jan 2022**

Assistant Systems Engineer Chennai, India

- Implemented back-end functionalities for a government "Ease of Doing Business" website using **Django framework.**
- Leveraged **Python** web development skills for efficient and scalable backend architecture.
- Employed data analysis libraries like **pandas** and **NumPy** to process and analyze relevant data, optimizing user experience.
- Achieved seamless integration with databases for information retrieval and storage, ensuring data security and accessibility.
- Contributed to a project promoting government transparency and efficiency, aligning with my passion for civic engagement.

ACADEMIC PROJECTS

Robotic Control and Trajectory Planning **Aug 2022 – Feb 2023**

University Of Delaware Delaware, USA

- Successfully managed a **7-DOF KUKA LBR iiwa 7 R800** robot for an academic project.
- Developed and implemented **robot control algorithms** and **trajectory planning** routines in **MATLAB**.
- Defined trajectory for picking up a object and placing object at desired position, considering **robot kinematics and dynamics**.
- Ensured smooth and accurate robot motion through efficient path planning and control techniques.

Airline Sentimental Analysis **Mar 2023 – Aug 2023**

University Of Delaware Delaware, USA

- Led the team in cleaning and transforming raw airline customer data using Python libraries like **Pandas** and **NumPy**.
- Performed meticulous **data cleaning** and processing to ensure reliable insights.
- Employed **tokenization techniques** to transform unstructured text data into machine-readable format.
- Balanced datasets effectively using random under and oversampling techniques.
- Implemented various machine learning models (Random Forest, Naive Bayes, etc.) for sentiment prediction.
- Obtained valuable insights into customer sentiment towards various airlines, revealing key trends and areas for improvement.