Sowmya Kothwalgudem

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EDUCATION

UNIVERSITY OF DAYTON   Dayton, OH
Master of Science – Computer Science   May 2023
> Relevant Coursework: Adv. Programming & Data Structures, Algorithm Design, Database Management Systems Data Science and Deep Learning, Image Processing/Advanced Computer Vision.

WORK EXPERIENCE

DXC Technology   Hyderabad, India
Software Engineer   Jun 2020 – May 2021
- Crafted intricate SQL queries and Python scripts in a Big Data environment for Microsoft, yielding a 30% reduction in query execution time.
- Spearheaded data engineering initiatives, including data ETL processes, resulting in a 20% improvement in data quality and consistency.
- Orchestrated the migration from legacy on-premises systems to AWS, capitalizing on services such as AWS Lambda, EC2, S3, and RDS, achieving cost savings of 25% and empowering dynamic resource scaling in response to demand.
- Pioneered the integration of third-party data sources into our systems by architecting REST API endpoints, broadening our data portfolio, and facilitating real-time insights.

Mahindra Rise   Hyderabad, India
Software Developer Intern   July 2019 – Jun 2020
- Leveraged R and Python (NumPy, Pandas) to develop and implement data-driven algorithms, resulting in a 20% improvement in decision-making processes.
- Established and maintained database systems using MS SQL and PostgreSQL, ensuring a 25% increase in data storage efficiency and seamless integration with applications.

PROJECTS

ProJango CRM: Empowering Customer Data Management   Nov 2023
- Orchestrated the development of a dynamic CRM application using Django, resulting in a 30% increase in the efficiency of customer data management and enabling users to execute over 500 CRUD operations seamlessly.
- Spearheaded the creation and meticulous management of 100+ user accounts within ProJango, showcasing advanced user management skills and enhancing overall system accessibility.

JARVIS A.I   Oct 2023
- Engineered and deployed a voice-activated AI assistant, attaining a 95% accuracy rate in recognizing and processing user commands via speech recognition technology.
- Enhanced user engagement with seamless web browsing integration, resulting in a 30% reduction in manual searches, and optimized daily operations, saving users 15 minutes per day, enhancing productivity and convenience.

KPMG AU Data Analytics (Virtual Internship)   July 2023
- Assessed data quality, pinpointed valuable customer segments through demographic and attribute analysis, and harnessed Python and Tableau for impactful data visualization and insights.

Fake News Detection   May 2023
- Executed and calibrated a Bidirectional Neural Network and LSTM-based deep learning model for proactive fake news detection, slashing manual media review requirements by 75%.
- Delivered unparalleled model proficiency, clocking in at a remarkable 98% accuracy, surpassing baseline models by an impressive 50%.

TECHNICAL SKILLS

Languages: Python (NumPy, SciPy, Matplotlib, Pandas), R, SQL, JavaScript, HTML, CSS
Databases/Tools: MS SQL, PostgreSQL, MongoDB, DynamoDB, Snowflake, Tableau/Power BI
Cloud Platforms: AWS (EC2, S3, Lambda, IAM, Athena), DataBricks
Frameworks/Version Control Systems: Flask, Django, Streamlit, Spark, PySpark, Docker, Git

ACHIEVEMENTS AND CONTRIBUTIONS

Certifications: AWS Certified Cloud Practitioner
Awards: Academic Merit Scholarship (University of Dayton)
Campus Involvement: HR Student Assistant and Cataloging Assistant at the University of Dayton, supporting diverse administrative and data management tasks.