ANOOP REDDY YEDDULA

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EDUCATION

Master of Science, Computer Science   September 2022 - June 2024
Portland State University, Portland, Oregon
Selected Coursework: Design and Analysis of Algorithms, Machine Learning, Artificial Intelligence, Databases, Data Mining, Internetworking Protocols, Agile Software Development, Virtual Reality, Computer Vision, Voice Assistant, Mobile Health.
Bachelor of Engineering, Computer Science   August 2016 - May 2020
Dayananda Sagar University, Bengaluru, Karnataka, India

TECHNICAL SKILLS

Programming/Web Technologies: Python, Java, C/C++, C#, HTML, CSS, JavaScript, React.js, Node.js, SQL
Developer Tools: Jupyter, Eclipse, MATLAB, Visual Studio, Android Studio, GitHub
Technologies/Frameworks: AWS, Azure, OpenCV, PyTorch, Git, REST API, Power BI, Tableau

PROFESSIONAL EXPERIENCE

Data Analyst | **Hudl, India**   October 2020 - May 2022

Performance Analysis 40% | Automation 30% | Integration 15% | Collaboration 15%

- Analyzed team and player performance metrics using SQL, Python, Tableau, Power BI, and MS Excel to provide actionable insights to senior management, improving decision-making.
- Automated data extraction, processing, and reporting using Python libraries (Pandas, NumPy, Matplotlib), streamlining data workflows and reducing manual effort.
- Collaborated with software engineering teams to integrate Python-based scripts and automated data processing workflows into web applications, ensuring seamless functionality.
- Performed complex data analysis and created visualizations in Tableau and Power BI to communicate trends and insights.
- Utilized advanced SQL joins and subqueries to efficiently extract and manipulate large datasets for performance analysis.

CERTIFICATIONS

- AWS CERTIFIED CLOUD PRACTITIONER

PROJECTS

CountryBot | *Node.js, JSON, Dialogflow*   January 2024 - March 2024

Natural Language Processing 40% | API Integration 30% | User Testing 30%

- Developed CountryBot, a conversational interface powered by Alexa Developer Console, to provide users with data about various countries.
- Integrated external APIs to retrieve real-time data on currency details, population, COVID-19 statistics, tourism data, and internet users for different countries.
- Conducted extensive user testing to evaluate usability, accuracy, & user satisfaction with the app's responses and functionality.

Accurate Rainfall Prediction | *Machine Learning, MATLAB, Data Visualization*   June 2023 - August 2023

Model Development 40% | Data Preprocessing 30% | Result Analysis 30%

- Created a predictive rainfall model using Support Vector Machine (SVM) and Artificial Neural Networks (ANN) in MATLAB and Linux.
- Preprocessed and segmented rainfall dataset including temperature, humidity, and time features for input into SVM and ANN classifiers.
- Designed the model architecture, trained classifiers, and validated accuracy, achieving higher prediction rates compared to existing systems.

Decoding Facial Recognition using Convolutional Neural Network | *Python, OpenCV(cv2), TensorFlow*   April 2023 - June 2023

Deep Learning Architecture 40% | Data Preprocessing 30% | Model Evaluation 30%

- Built a facial recognition system using Convolutional Neural Networks (CNN) in Python, OpenCV, and TensorFlow libraries.
- Processed images and videos from a custom dataset to identify objects and faces, utilizing OpenCV for image processing and feature extraction.
- Designed the CNN architecture, optimizing performance with TensorFlow and Kera's, while employing seaborn for data visualization to analyze accuracy and loss values.

Hospital Data Management | *PostgreSQL, Python*   April 2023 – June 2023

Query Optimization 40% | Database Design 30% | ER Diagrams 30%

- Optimized SQL queries for a hospital, enhancing data retrieval efficiency, minimizing response times. Proficient in importing and cleaning data from Kaggle using Python.
- Designed database tables with primary and foreign keys, ensuring data integrity and facilitating seamless data organization.
- Developed an ER diagram illustrating table relationships for effective service architecture.

Healthcare Mobile App | *Java, Firebase*   April 2023 - June 2023

UI Design and Development 50% | Integration 25% | Testing 25%

- Led the design and development of the user interface for a mHealth application (intuitive navigation).
- Integrated Firebase authentication and real-time database features, enhancing user experience and data management capabilities.
- Conducted end-to-end testing to ensure the reliability and functionality of the mHealth app across various devices and scenarios.