VAIDIK VADHAVANA

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Education

University of Southern California   Aug 2024 - May 2026
Master of Science, Computer Science

University of Mumbai (APSIT)   Dec 2020 - Apr 2024
Bachelor of Engineering, Computer Engineering   GPA – **9.28/10.0**

Work Experience

EduSkills Foundation (AICTE)   Jul 2022 - Sep 2022
Data Analytics Intern
- Leveraged advanced machine learning algorithms and executed them on Amazon Web Services (AWS) using EC2 and S3 to analyze current trends of data.
- Trained a sophisticated deep learning model for the product pipeline, enhancing prediction accuracy by 15% through the optimization of ML models using hyperparameter tuning.
- Performed extensive data cleaning and preprocessing on large datasets using Python libraries (Pandas, NumPy), improving model performance by 20% through feature engineering and handling missing values.

APSIT Skills   Sep 2021 - Nov 2021
Machine Learning Intern
- Produced detailed user guides and training materials on machine learning basics, improving comprehension among over 30 students during workshops.
- Developed foundational skills in machine learning and AI/ML by creating impactful projects, applying object-oriented design principles and algorithms.
- Implemented machine learning algorithms to automate data analysis processes, decreasing manual workload by 50%.

Projects

APSIT Community | Flask, React, MongoDB, AWS   Jun 2023 - Mar 2024
- Led the development of a social media platform to encourage inter-department communication between students.
- Boosted platform security by executing JWT authentication, reducing unauthorized access by 30% and ensuring secure user authentication for 100+ users across the application.
- Collaborated with 120 students to test application, gather feedback, and implement necessary improvements, resulting in an increase in user satisfaction by iterating on improvements.
- Orchestrated AWS deployment using Amplify, Elastic Beanstalk, and S3, achieving a 40% improvement in application scalability and reducing deployment time.

NutriLytik for Diabetic Patients | Python, ML, Flutter   Jun 2022 - Mar 2023
- Constructed a mobile application designed to scan food labels and provide nutritional insights, enabling diabetic patients to effectively monitor their diets and maintain health safety.
- Engineered APIs for personalized meal plans based on a survey of 170+ diabetic patients, leading to improved dietary tracking and suggestions.
- Created OCR scanner for real-time nutritional label analysis, increasing user satisfaction by 30% through faster and more accurate meal logging.

Hire Me - Resume sorter | Python (pdfminer, nltk, spacy, tkinter)   Jan 2022 - Mar 2022
- Engineered resume sorting application using Python, which improved resume processing efficiency by 50% through the implementation of Natural Language Processing (NLP) techniques to categorize and sort resumes based on domain-specific keywords.
- Developed a user-friendly GUI using Tkinter, resulting in a 30% increase in user engagement by making the application more accessible and intuitive for non-technical users.

Skills

Languages: Python, Java, JavaScript, C, C++
Frameworks & Web Technologies: HTML5, CSS3, Node.js, Flask, Django
Databases: PostgreSQL, MySQL, SQLServer, MongoDB
Cloud and Tools: AWS, GCP, Heroku, Git, Github, Postman, Cloud architecture