PRADYUMN PUNDIR

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ December 2023
Master Of Science In Computer Science 3.934 GPA
Jaypee University Of Information Technology, INDIA July 2018 - July 2022
Bachelor Of Technology In Computer Science 8.26 GPA

TECHNICAL SKILLS

Language & Database: Python, JavaScript, HTML, CSS, PostgreSQL, Firebase, MongoDB
Framework & Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, MLflow, Express, Node.js
Other Skills & Technologies: Machine Learning, Deep Learning, Natural Language Processing, Large Language Model, Linux, CI/CD, Docker, Flask, Data version control, Git, Jenkins, GitHub actions, AWS EC2

EXPERIENCE

Developer Analyst Intern June 2023 - August 2023

Barclays, Whippany, NJ

- Designed and implemented a high-performance web portal using Node.js, HTML, CSS incorporating Docker for efficient containerization. Applied continuous testing, integration, and deployment practices, resulting in a substantial 36% improvement in employee interaction and network growth
- Led the development of a dynamic Node.js application for an employee portal, streamlining information access during a team merger for 3000+ employees. Managed the web development team, ensuring effective project management, testing, and collaboration across regions

RESEARCH AND PUBLICATIONS

Towards a Multimodal System for Precision Agriculture using IoT and Machine Learning

IEEE ICCCNT 2021, IIT Kharagpur, INDIA

- Discovered methods to improve crop productivity with less human intervention.
- Implemented diverse machine learning algorithms such as Random Forest, LGBM, and KNN, Pre-Trained CNN models such as VGG16, Resnet50, and DenseNet121

On CI/CD for Automated Deployment of Machine Learning Models using MLOps

IEEE AIKE 2021, Laguna Hills, CA, US

- Study provides a more in-depth look at machine learning lifecycle as well as key contrasts between DevOps and MLOps
- Includes tools and methodologies for executing the CI/CD pipeline of machine learning frameworks

ACADEMIC PROJECTS

Body-Fat-Prediction-with-Machine-Learning-and-MLOps

- Buit a framework using machine learning algorithms Random Forest, Decision Tree, Extra Trees, and KNN to predict obesity levels, body weight, and fat percentage levels, followed by the Hyper-parameter optimization to increase model's accuracy
- Implemented continuous integration and continuous deployment (CI/CD) to deploy a user-friendly web app using Python Flask on Azure. Utilized DVC and MLflow for model performance tracking, resulting in an accessible and optimized solution for predicting body metrics through machine learning
- The research project was published in MIPRO 2021, Optija, Croatia

Better Interview Book

- Led end-to-end development of "Better Interview Book," leveraging a tech stack including Node.js, HTML, CSS, and MongoDB. Directed the creation of a feature-rich platform catering to the nuanced needs of modern job seekers and tech professionals
- Orchestrated seamless integration of core features, including a Social Media Page for user insights, Referral Page for job referrals, and a Recommendation Page powered by an intuitive recommendation system. Demonstrated proficiency in tech stack management
- Demonstrated advanced proficiency in building Node.js application, orchestrating the end-to-end development of "Better Interview Book." Implemented containerization using Docker for streamlined deployment and hosted the application on a AWS EC2 server, optimizing performance and user experience