PRADYUMN PUNDIR

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ — Expected December 2023
Master Of Science In Computer Science — 3.953 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, PostgreSQL, Firebase, MongoDB
Framework & Libraries: NumPy, Pandas, Scikit-learn, TensorFlow, Keras, MLflow, Express, Node.js, React.js
Other Skills & Technologies: Machine Learning, Deep Learning, NLP, CI/CD, Docker, Kubernetes, Flask, Data version control, Git

EXPERIENCE

Developer Analyst Intern — June 2023 - August 2023
Barclays, Whippany, NJ

- Built a hybrid recommendation system using collaborative and content-based filtering allowing the infrastructure and the technology to team collaborate effectively covering 3000+ employees
- Employed Python-based visualization to showcase the recommendation system's impact. Dynamic dashboards and reports informed decisions, deepening understanding of performance and fostering employee engagement, while also providing insights into network growth
- Built a high-performance, high-scalable, and effortless web portal using docker, implemented continuous testing, integration & deployment which resulted in improved employee interaction & network growth by 36%
- Collaborated with stakeholders, quality assurance, and other software development teams to align with goals & gather requirements across 3 different regions, Managed the data science team to ensure model testing, validation, collaborative practices, improved code quality, and optimized procedures demonstrating effective project management

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, bodyweight, and fat percentage levels, followed by the Hyperparameter 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

Providing Valuable Insights to MOOC Users: A Systematic Approach to provide Sentiment Analysis on User Reviews

- Conducted research on the rapid expansion of online education and analyzed user feedback for top courses from prominent websites using SVM and Naive Bayes machine learning techniques for sentiment score
- The research project provides the valuable insights to users through comprehensive user feedback analysis, aiding informed course selection and enhancing online learning outcomes