

PRADYUMN PUNDIR

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ

Master Of Science In Computer Science

Expected December 2023

3.953 GPA

Jaypee University Of Information Technology, INDIA

Bachelor Of Technology In Computer Science

July 2018 - July 2022

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

EXPERIENCE

Developer Analyst Intern

June 2023 - August 2023

Barclays, Whippany, NJ

- Built a hybrid recommendation system using context based and collaborative filtering allowing the infrastructure and the technology to team collaborate effectively covering 3000+ employees
- Built a high-performance, high-scalable, and effortless web portal using flask, containerized it using docker, implemented continuous testing, integration & deployment. The web portal 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 ICCNT 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

- Built 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

Symptom Extraction and Linking from Vaccine Adverse Event Reports

- Applied advanced NLP techniques, including sequence labeling, to extract symptoms from Vaccine Adverse Event Reports (VAERS), showcasing expertise in linguistic analysis
- Led a successful project in developing a robust sequence labeling model for vaccine adverse event identification. Overcame language variability challenges in VAERS reports through a comprehensive data preprocessing pipeline
- Demonstrated technical prowess with a multi-step data preprocessing pipeline, state-of-the-art NER technology, and achieved 97% accuracy using Logistic Regression for vaccine adverse event identification