PALAK PRIYESH GOSALIA

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EDUCATION

Stony Brook University, NY, USA
Aug 2021 - Dec 2022
Masters of Science: Department of Electrical and Computer Engineering
Coursework: Operating Systems, Digital Image Processing, Pattern Recognition, Computer and Robot Vision, Practical Machine Learning and AI, Stochastic Systems, Networking Algorithm and Analysis

D. J. Sanghvi College of Engineering, University of Mumbai, India
Aug 2017 - May 2021
Bachelor of Engineering: Department of Electronics and Telecommunication Engineering
Coursework: Database Management System, Neural Networks and Fuzzy Logic, Data Structures and Algorithms

EXPERIENCE

Software Engineer Volunteer | One Community Global | Remote, USA
Oct 2023 – Present
- Collaborated with the engineering team for the development of a React-based web application aimed at enhancing team, projects and material management processes

Voluntary Graduate Researcher | Stony Brook University | NY, USA
Feb 2023 – Sept 2023
- Trained and fine-tuned a YoloV5 Object detection model using label annotations and a Resnet classification model to get a 99.95% accuracy in detecting a 3D vs 2D custom ID card to prevent Identity Theft in Universities

Software Engineer Intern | Evernote Corporation | CA, USA
May 2022 - Aug 2022
- Designed a **NextJS (React Extension)** application to provide an interface listing all email templates and developed an **API** using **Google Cloud Pub/Sub** to help teams test emails that go through Notifications Service
- Incorporated **CI/CD** pipeline by creating Dockerfiles and Groovy files to run a Jenkins job ensuring smooth deployment of the application
- Implemented a **Selenium** script in **Python** to upload new email templates to Iterable, automating the process of addingnew email templates to Notifications Service and speeding up the process by **35%**

PROJECTS

Predicting Survival Chances of Titanic Passengers | Python, sklearn, Data Mining
Aug 2021 - Dec 2021
- Developed and implemented a Decision Tree Classifier model to predict the survival chances of Titanic passengers based on features such as age, gender, and socio-economic status
- Preprocessed and analyzed the "Titanic: Machine Learning from Disaster" dataset, handling missing values and transforming categorical variables into numerical representations
- Conducted model evaluation and hyperparameter tuning, optimizing performance of the decision tree classifier

Modeling Microstrip Antenna | IE3D, Python, PyTorch, Neural Networks
Jun 2020 - Aug 2021
- Designed and fine-tuned rectangular microstrip antennas on IE3D software to generate a dataset
- Trained a two-step ANN, to predict length, width, and e-slot dimensions of the microstrip antenna for a wide range of frequencies, automating the process of manual regressions required to predict these dimensions
- Carried out measurements at different substrate thicknesses at a given frequency and compared results with the projected values to get 97% accuracy of predictions made by ANN

Office Management System | Angular, PHP, MySQL
Sept 2018 - Nov 2018
- Created an efficient and user-friendly Progressive Web Application (PWA) using Angular 6.0, enhancing task management and communication within the office
- Established a secure connection between the application and a MySQL database through PHP scripts

Smart Hands | Java, Android, TextIt
Feb 2018 - Mar 2018
- Developed an Android based Java application that converts English and multiple Indian languages to standard sign languages to ease the language barrier faced by Speech and hearing-impaired people

SKILLS

Programming Languages: Python, Java, SQL, NoSQL, C
Web Technologies: JavaScript, React, Angular, NodeJS, NextJS, Typescript, Selenium, Bootstrap, HTML, CSS
Tools: GCP Pub/Sub, AWS, Jenkins, Docker, Kubernetes, Git, BitBucket, JIRA

EXTRA-CURRICULAR ACTIVITIES

- Completed the **Ultimate AWS Cloud Practitioner** Certification on Udemy by **Stephane Maarek**
- Completed Certification for **Programming Data Structures *(University of Michigan)***