PALAK 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

Voluntary Graduate Researcher | Stony Brook University | NY, USA
Dec 2022 – Present
- Assisting Prof. Murali Subbarao in the field of Computer Vision

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%
- Documented a step-by-step guide for generating campaigns and uploading email templates to Iterable, simplifying the process for the entire team

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

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, NodeJS, NextJS, Typescript, Android, 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)*** - May 2020