Abhishek Karwankar
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Education

University of Delaware   Newark, Delaware
MS-Computer and Information Sciences   *2022 – Expected 2024*
Coursework: Algorithms, Computer Networks, Artificial Intelligence

Pune Institute of Computer Technology   Pune, India
BE-Electronics and Telecommunication   *2017-2021*
Coursework: Data Structures, Machine Learning, OOP, Artificial Intelligence

Experience

_VOIS, Pune(India)   August 2021 – July 2022
Graduate Engineer Trainee

- Designed reactive microservice modules for enterprise-level services using **RESTful APIs**
- Updated the **CI/CD pipeline** in **Jenkins** for the periodic deployment of the latest **Docker** container images on **AWS EKS Kubernetes** cluster.
- Ensured code quality up to 90% by mitigating the vulnerabilities of the application layer using **SonarQube**.
- Updated the 2 major Microservices under my SCRUM team to the latest **Spring Boot** version which generates revenue of billions for the Company.

eGlobalDoctors LLC, San Francisco (USA)   June 2020 – July 2021
Software Engineer Intern

- Developed the **Backend RESTful APIs** and connected different Data models by writing Programming Logic.
- Implemented the Data Model for the complete Web Application using **PostgreSQL.**
- Developed a complete Web Application from scratch which was accredited by notable media outlets and helped around **2500** people seek free medical health counselling during the second wave of covid 19 in India.

Upcloud Technology PVT LTD, Mumbai (India)   July 2020 - September 2020
Deep Learning Intern

- Developed a **Deep Learning** model using various algorithms that worked as a Menstrual Cycle Tracker and an Alert System for the Menstrual Tracker.
- Worked on a model that was trained to adapt predictions of a user and a global model to improve base/initial model predictions of the date for the next menstrual cycle.

Findability Sciences, Aurangabad(India)   June 2019 – July 2019
Software Engineer Intern

- Developed a **Web Scraping** application in Python Using various frameworks like **HTMLunit** and **BeautifulSoup** to fetch information from a particular company's webpage.

Projects

Transfer Learning for Birds 450 Species: Image Classification   December 2022 - Present

- The dataset consists of 450 Species of Birds. Building a Machine Learning Model using **Transfer Learning Techniques** and pre trained models like **RESNET50, VGG16 and EfficientNetB0** architecture to classify the birds into their respective species.

Detection of Fractures in Bones using Deep Learning Techniques   June 2020 – June 2021

- BE Thesis Project. Worked on detection of minute fractures in the bones of a human hand using **CNN, RADTorch, RESNET 50**, and deploying the model on a server using the **Flask API**. The dataset used was the Stanford MURA dataset. The accuracy we received was around **75%** which was the highest among our peers.

Breast Cancer Detection using Machine Learning   January 2020 - April 2020

- Model was trained using the **K Nearest Neighbour Algorithm** to identify the onset of Breast Cancer. The dataset used is the University of Wisconsin Breast Cancer Dataset. The accuracy of predicting the cancer was found to be **99.6%.**

Skills

Programming Languages: C, C++, Java, Python, JavaScript, MATLAB
Frameworks: Keras, Tensorflow, Pytorch, RADTorch, Angular, PrimeNG, NodeJS, Flask, Spring Boot, REST Architecture, Docker, GIT
Database: MySQL, PostgreSQL
Cloud: Azure, AWS, Heroku, Kubernetes