

Abhinav Priyadarshi

Nottingham, UK || Visa Details: Graduate Visa (also called PSW), Valid up to April 2024

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Technical Skills

- Programming Languages: Python 3, C++ 11/14, C#.
- Databases: MySQL, NoSQL & Cloud Database {PostgreSQL, NoSQL, SQL Server, Cloud SQL, BigQuery}, Flask ORM.
- Cloud: GCP (Google Cloud), Azure, AWS (Amazon Web Services).
- Libraries: Pandas, NumPy, SciPy, Matplotlib, Seaborn, Keras, OpenCV, Tensorflow, Yolo V3/V5, Darknet.
- Machine Learning, Deep Learning, Computer Vision.
- Web Framework: Flask.
- Python Testing: Pytest, unittest
- Web Technologies: HTML, CSS, JSON, Rest API.
- IDEs/Simulators: Anaconda, Jupyter Notebook, VS Code, Notepad++, MATLAB.
- OS: Windows W8/W10, Ubuntu 20.04
- DevOps (CI/CD): Docker, Kubernetes, Jenkins, Ansible, GitHub Actions.
- Networking Tools: PuTTY, Advanced IP Scanner.
- Version Control (SCM): Git.
- Computer Science Skills: Data Structures and Algorithms, Operating Systems, Computer Networking, Ethical Hacking.

Addition Skills

- Leadership, Risk Management, Project Planning, Adaptability, Agile.

Experience

Python Developer

Jul' 2021 to Oct'2021

Computer Vision Start-up

- Development, Data Visualization, Data Cleaning, Modelling & Training of ML models.
- Trained model in Jupyter Notebook(local) and google Colab.
- Deployed trained model in Flask and deployed locally on raspberry Pi and local ubuntu environments using docker.
- Built application on Microservice architecture
- Tech Stacks/Tools Used: Rest APIs, Flask, VS code, Docker, Deep Learning, Machine Learning, Open CV, Tensorflow, Linux (Ubuntu, Raspberry pi OS).

Keys Achievements

- Deploy application on Staging environment.
- Led a Team of Developers.
- Conducted Daily day-to-day Meetings, to see development & progress. (Opted Agile Approach).

Python Developer

Oct' 2020 to Jul'2021

iSmile Technologies Chicago, IL, USA (Placement Year) Type of Work: Full Time (40 hrs/week) (Remote)

- Worked in Virtual Assistant: Covid Analyser Team, as a Machine Learning Engineer to design Facial Recognition System and Fatigue Detection System.
- Created script to convert videos to photos and later trained it using Machine Learning and Deep Learning algorithms to get better results and accuracies using 100 GB of Dataset.
- Provided consultation on the use of computer vision for Food Allergies Application and helped in designing technical flow diagram.
- Detected anomalies in sewer pipe using sewage robot with accuracy up to 95%. With model trained using YOLO V3 and later on V5.
- Performed Stock Market Analysis (NASDAQ) to analyse Index funds and FAANG stocks for Options and Futures.
- Cloud Migration: Automated client's Local Oracle Database to GCP for uploading changes in weekly and monthly fashion with a script run.
- Worked on Various technologies and tools: Languages {Python3, C++11/14}, Framework {Flask, Django}, Machine Learning {SVM, RCNN, Random Forest}, Deep Learning & Computer Vision {Darknet, YOLO V3, V5, Custom Vision, OpenCV, Tensorflow, Keras}, Operating System {Raspberry Pi OS, Ubuntu}, IDE {VS Code, BASH, Google Colab}, Cloud {GCP, Azure}, Video Streamers {FFmpeg, OBS Studio, Azure Media Services}.

Key Achievements

- Worked in a global team and got a chance to lead a team of developers.
- Worked in Start-up and Agile environment.
- Learned importance of version control and DevOps.
- Designed, created, and deployed applications from scratch.
- Performed different tasks from a cross-domain, be it from data science, robotics, or cloud.

Education

Nottingham Trent University – Nottingham

Jan'2020 to Jan' 2022

MSc Engineering (Electronics Engineering)

Relevant Coursework:

Software Engineering (C#), Embedded Systems, Major Project.

Chandigarh Engineering College - Mohali, India

Jul'2014 to Jun' 2018

B. Tech (Electronics & Communication Engineering)

Relevant Coursework:

Operating Systems, Object Oriented Programming, Computer Networks, Data Structures & Algorithms