ABHISHEK AGGARWAL

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EXPERIENCE

Tata Consultancy Services
Systems Engineer, Analytics & Insights Unit

📅 July 2019 – present   ⚲ Noida,India

- As a part of Data Analytics & Insights team, worked as an **SME for python and backend development** on building scalable applications for various clients.
- Worked closely with clients right from **requirement gathering** to **application deployment** phase and also worked on various **POC's** for better understanding of client requirements and feasibility analysis
- As a core developer of Decision Fabric Surveillance Platform, worked on backend development using **Python, Flask, PostgreSQL, ElasticSearch and Docker**.

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Netcamp Solutions
Project Intern

📅 July 2018 - Sep 2018   ⚲ Ghaziabad, India

- As a project intern, I was trained in **Web Development, Android App Development & various Networking concepts**.
- Worked on the development of web based dashboard for a Health Care Monitoring System along with its Android Application.

ACHIEVEMENTS

- Completed the **Deep Learning Specialization** on coursera by Andrew Ng, which includes various courses from **simple neural networks to CNN & Sequence models**.
- Awarded with the title of **CodeStar** during Farewell at Raj Kumar Goel Institute of Technology.
- Became a **yellow coder** on CodeChef by acquiring a global rank of 130 among more than 11,000 participants on September Long Challenge, 2018.
- Acheived 28th rank in **TCS codevita** coding challenge.

TECHNICAL SKILLS

- **Operating System:** Linux, Windows
- **Data Structures:** C++, JAVA
- **Version Control:** Git
- **Database:** MySQL, PostgreSQL, Redis
- **Python:** Flask, Django, Pytorch, OpenCV
- **Tools:** Vim, Anaconda Framework, VSCode, Jupyter Notebook, Eclipse IDE
- **Machine Learning, Data Analysis**
- **Computer Vision, Face Recognition, Object Detection**
- **Docker, Problem Solving & Optimization**

EDUCATION

B.Tech. (CSE)
Raj Kumar Goel Institute of Technology, Ghaziabad

📅 June 2015 – June 2019

Higher Secondary (Standard XII)
Central Board of Secondary Education

📅 April 2014 - April 2015

PUBLICATIONS

Comparative Assessment of Different Deep Learning Models for Aircraft Detection

- Headed a research on the comparative study of three **Deep Learning models (YOLO, SSD and RCNN)** for small scale aircraft detection on satellite images & presented it to **IEEE Banglore in INCET 2020 conference**.

PROJECTS

Semantic Search - Intelligent Site Analysis

- Developed a **search engine** platform which provides intelligent search capabilities on the client's enterprise data for a Life Science & Healthcare customer using **Python - Flask and Elasticsearch**.
- Also deployed the whole component in a **production environment using Docke**r.

Intelligent Face Detection & Recognition System with Liveness Check

- A human face detection and recognition system with the capability to detect & recognise different faces present either in images or videos using **OpenCV & Dlib**.
- Also leveraged the solution to detect various features like **eye blinking and head movement in order to check liveness** of a person in a live webcam footage.

Decision Fabric Web Crawler

- A scalable web crawling engine with the capability of **extracting raw data from various internet sources**.
- Can **configure and schedule** various scraping components as per user needs.
- Built using **Flask - Python, Scrapy, PostgreSQL, Redis Queue, Gunicorn**.

Covid-19 Dashboard

- A **real time dashboard** to track and analyze the severity of **covid-19** in India.
- Created an **automated data collection pipeline** to extract data from various government & news websites.
- Also provides **sentiment analysis** on the extracted data with **user friendly visualizations**.