

Aman Agarwal

WEB DEVELOPER · PYTHON DEVELOPER · DATA SCIENCE ENTHUSIAST

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Education

University Institute of Engineering and Technology, Panjab University

B.E in Computer Science and Engineering

CGPA : 8.85/10

2017 - Present

Chandigarh, India

ST. Paul's Inter College

Secondary

Grade : 93.2%

May 2016

Agra, India

Senior Secondary

Grade : 86.7%

May 2014

Agra, India

Skills

Programming

C++, Python, SQL, Data Structure and Algorithms ([codechef-agarwalaman860](#), [leetcode-agarwalaman860](#))

Libraries and Frameworks

tkinter, Numpy, Pandas, Matplotlib

Web and Databases

HTML, CSS, JavaScript, PHP, MYSQL, SQLite3 with Python

DevOps

Docker

Work Experience

Oil and Natural Gas Corporation

Dehradun, India

SOFTWARE DEVELOPER INTERN

June 2019 - August 2019

- Developed a **Desktop application** which generates the **AMC bills** for the organization.
- User enters contract number and rest info is fetched from the **database** designed in SQLite3.
- Automated the complete system using python **Frontend (tkinter)**, **document creation (docx)**, **database (SQLite3)**.
- This software increased the **working efficiency** of organization by **20x**

Design and Innovation Centre

Chandigarh, India

RESEARCH INTERN ON MEDICAL DEVICES

Nov 2018 - Aug. 2019

- Worked on the dental device **Tooth Shade Detector** used in **digital imaging** technologies to analyze the shade of patient's tooth
- Used **Nearest Neighbour Algorithm** to extract the dominant **RGB** value in the picture.
- Classified** the shade of the input image (**from 16 shades**) by using the **RGB** value (**extracted by applying algorithm**).

GeeksforGeeks

Chandigarh, India

TECHNICAL CONTENT WRITER ([PROFILE LINK](#))

March 2019 - Jan 2020

- Written the articles on technical topics (**PHP, JQuery, HTML, JavaScript, Software Engineering, C#**.)

Projects

Satellite Image Reconstruction

IMAGE SEGMENTATION | OPENCV | PYTHON | FLASK | DEEP LEARNING | DOCKER | KUBERNETES | IBM CLOUD | 3 MEMBER TEAM

April 2020 - Aug 2020

- Technoutsav 3.0** Hackathon organized by **Deloitte**.
- Developing solution to **reconstruct the satellite Images** using **UNet architecture** for **cloud and shadow detection**.
- Constructed the dataset** over 56 Images by masking the clouds using **photoshop** and to train the **model**.
- Cloud and shadow removal** is done by designing the **Image Inpainting algorithm** based on the **pixel priority** and **eculidean distance**.
- Testing** is done over 13 Images got **80% accuracy**.
- Used **Flask** to deploy prototype on **IBM Cloud** using **kubernetes** and **Docker**

Advanced Book Transactions System

HTML | CSS | BOOTSTRAP | JAVASCRIPT | MYSQL | PHP | 5 MEMBER TEAM

Jan 2020 - Feb 2020

- Developed this web application in **Smart India Hackathon 2020** organized by AICTE.
- A fully fledged website having user authentication, API calls, MYSQL Database.
- Integrated **speech to text** converter **JavaScript API** to implement voice based searching of books.
- Entry for the new book can be done using **ISBN number** and rest information will be automatically fetched from the admin side.
- One can **rate the book**, automatic fine calculation, **payment gateway**, **sharing books**, message system when book is issued and returned.

Interactive Web Interface

HTML | CSS | BOOTSTRAP | JAVASCRIPT | PARTICLE.JS | MYSQL | PHP | 3 MEMBER TEAM

May 2019 - June 2019

- Developed this webinterface in **UHackathon1.0** organized by UPES.
- A fully fledged web Interface (theme : healthcare) having API calls, MYSQL Database.
- Integrated video, slider, **discussion form**, dropdown, **recent news option** fetches the news through **JSON API call**.

Courses

FEB 2020 **Python for Data Analysis**, from **Internity Foundation**.

[link](#)

MAY 2020 **Model Deployment using Flask**, from **Coursera**.

[link](#)

Achievements

May 2020 **Appointed for the role of problem solver in Data Science**, in **Internity Foundation**.

[link](#)

Mar 2020 **Institute Rank 1**, Discovery Challenge held by **Scalar Academy**.

[link](#)

Oct 2019 **Rank 8 among 300 participants**, Coding Competiton organized by **CODE OF GEEKS**.

[link](#)

Aug 2019 **Appreciation letter**, Oil and Natural Gas Corporation, Dehradun, India.

[link](#)

Jan 2019 **Best Intern**, Internity Foundation

[link](#)