

# AMIT DILIP JAISWAL

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## Education

IIT BHU (Varanasi)

Jul 2019 - Jun 2023

Bachelor of Technology in C.E (CPI: 8.68/10)

Varanasi, UP

## Technical Skills

**Languages:** C++, Java, Python, MySQL

**Web Development:** Spring Boot, React, MERN Stack

**Core Subjects:** OS, Computer Networking, DBMS, OOPs

**Developer Tools & Technologies:** Linux, OpenAI API, GPT, Git & GitHub, Git Action, AWS, Bash Shell Scripting

**Open Elective Courses:** Ubiquitous Computing, Soft Computing, Cloud Computing, Telecommunication Networks

## Experience

MUSHIN INNOVATION LABS

Jul 2023 - Jul 2024

*Full Stack Developer*

- Revolutionized data upload process by developing a sophisticated Excel table automation tool using a stack of tech tools including **JavaScript, FormData, Multer, Express Js, SpawnSync, Python, Pandas Dataframe, Openpyxl**; achieved over 100-fold increase in speed and accuracy, eliminating manual data entry and boosting productivity.
- Developed and integrated a robust Excel Download functionality by leveraging **HTML DOM, Blob, Express Js, Python, Openpyxl lib, BeautifulSoup4 Lib**; empowering 30+ clients to export and analyze tabular data offline.
- Built a feature by utilizing tech stacks: **HTML DOM, Blob, Express Js, Puppeteer lib, pdf-lib, and a Headless Browser** to convert HTML tables into PDFs while preserving formatting and styling, thus satisfying client 100%.
- Created an Inventory Finding UI module in a React application using **React Components, TypeScript, and CSS/MUI**. This enhancement improves the client experience for efficiently locating and managing inventory items.
- Crafted a comprehensive Help Desk module using **React Components, TypeScript, Multer, MUI, MongoDB, Express Js**. This module enhances user support functionalities and streamlines issue resolution.
- Designed and implemented an Automated Messaging System to facilitate seamless communication between MongoDB and WhatsApp. By utilizing tech stacks such as **bash Script, Mudslide-lib, MongoDB, Crontab/Cron Job**.
- **Formulated** a robust **CI/CD pipeline using GitHub Actions** to automate the **build and deployment processes**. This pipeline deploys project within 10 min, resulting in **improved development efficiency and release reliability**.
- Integrated the **OpenAI Fine-Tuning Model {with custom training(80%) and testing(20%) data}** using **API** into a React web app, providing client with a seamless text input analysis feature; eliminating the need of manual input.
- ReEngineered cloud storage connection between the **client-side and AWS S3 using backend middleware to enhance security**. Utilized **JavaScript FormData, Multer, Express.js, UUIDv4 and AWS-SDK**.
- Exposures: **MERN Stack, API, Express Js, Mongoose/MongoSh, NPM Libs, MUI, Python, Python Libs, AWS (EC2 & S3), Linux, Shell Scripting, GPT, OpenAI API, etc.**

## Projects

**Path - Finding Visualizer** | [GitHub](#) | *BFS, Dijkstra's, A\* Search Algo, HTML, CSS, Javascript* Dec 2021 - Jan 2022

- Created a Pathfinding Visualizer that illustrates the shortest path from source to destination, navigating obstacles in a grid, employing various shortest path algorithms.
- Offered users an intuitive interface to visualize the 3 shortest path Algo through Breadth-First Search, Dijkstra's, and A\* Search Algorithms, structured in JavaScript.

**Face Mask Detection Alert System** | [GitHub](#) | *Python, Jupyter-lab, OpenCV, SVM* Dec 2022 - Jan 2023

- Utilized the haarcascade frontalface dataset to detect frontal faces. Gathered personal face data with and without masks via camera and stored both datasets using OpenCV.
- Incorporated a Beep alert that persists until a mask is worn. Employed a Machine Learning model, specifically Support Vector Machine, achieving 98% accuracy on live data.

## Honours And Achievements

### Competitive Programming

- Solved over **900 problems** on online Competitive Programming Platforms like GFG, [Codeforces](#) & [Leetcode](#).
- Rank of 2883 in Google Kick Start Round E, 2021. 1119809 points in Google Hash Code 2022. | [Certificates](#).

### Extra-Curricular Activities

- Involved in **ROBOWAR** event with seniors of team of 5+ members in Technex-2019, IIT (BHU).
- Professional hobbyist in building and customizing remote-controlled (RC) drones, cars, boats, etc; and Electrician.
- AOSP/Android Custom Rom/Android Rooting Enthusiast.