Niyati Madaan

B.Tech – Mechanical Engineering, IIT Dhanbad

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VOCATIONAL EXPERIENCE AND TRAINING

Petro IT — Intern, *Software Development*

16 MAY 2022 - 14 AUG 2022

- Working as a full-stack web developer for Stack 61 by using the Spring Boot framework at the backend.
- Designing, problem-solving, developing, testing, and deploying mobile applications using Flutter
- Migrated Ten89 app from flutter 2.6 to **flutter null safety**.
- **Technical Features**:
  - Data Storage - **Firestore**
  - Document Store - **AWS S3**
  - QR code labels and Barcode Scanning
  - **Listeners** continuously update the project.
- RESTful API integration
- Debugging and bug solving.

PROJECTS

ParkX

2022

- **ParkX** is a smart parking cloud-based system software.
- Inputs from IR and piezoelectric sensors get processed in the Raspberry PI and sent to the cloud.
- The parking availability data is displayed in an interactive frontend where users can book spaces.
- Creating a user interactive frontend using ReactJS and backend using NodeJS.
- This project is a part of HackX'22
- Project Link: ParkX

Connecting

2022

- **Connecting** is an **flutter** mobile application built for Teachers to keep track of the Students, give Assignments, and maintain their own schedule.
- Used **Firestore** (Cloud based memory) as a database.
- Project Link : Connecting

Web Crawler

2020

- Built a menu driven web scraper using **python**.
- Parsing out the html code using **BeautifulSoup**.
- Finding the directories, links and social media accounts.
- Using **selenium** to take screenshots of the website.
- This project is a part of Winter of Code, IIT ISM Dhanbad.
- Project Link : Web Crawler

Shortest Path Prediction Model

2021

- **Computer Vision project** predicting shortest path given between two points in an image.
- Roads are detected from the image shot from a drone above the ground using OpenCV.
- Shortest path is calculated using **Djikstra's algorithm**.
- Tech Stack used: Python, Numpy, matplotlib, OpenCV.
- This project is a part of Ishana Takshak 2021.
- Project Link : Shortest Path Prediction Model

EDUCATION

Indian Institute of Technology (ISM), Dhanbad — *B.Tech Mechanical Engineering*

2020 - 2024

School, Montfort Senior Secondary School, Delhi

12th - APRIL 2019- APRIL 2020 - **94%**
10th - APRIL 2017- APRIL 2018 - **93.2%**

SKILLS

- **Programming Languages :** C++, C, Java**,** Python, Dart, JavaScript
- **Frontend :** Flutter, HTML, CSS, Tailwind, JQuery, ReactJS
- **Backend:** Spring Boot
- **Database :** MongoDB, MySQL, Cloud Firestore, SQLite
- **Cloud :** AWS, Heroku, Firebase
- **Libraries :** Numpy, pandas, matplotlib, sklearn, OpenCV, BeautifulSoup, Selenium
- **Tools :** Postman, Linux, Git, GitHub
- **Others :** Web Scraping. Machine Learning, Computer Vision

ACHIEVEMENTS

- **Second runner up** at **Blueprint 2022** conducted by SPE IIT(ISM) Student Chapter.
- **Runner up of Treasure hunt** at Khannan, the annual Geo-Mining Fest of IIT Dhanbad.
- **Bronze Medalist** in Student General Championship 2022.
- **Top 10** finalists at Hackfest IIT ISM 2022.
- **Second runner up** in **HackX** 2022.

POSITION OF RESPONSIBILITY

Takshak 2022 Organiser
Took an initiative to be in the core and content team for organising Takshak with the RoboISM team.

RoboISM member
Roboism is the official Robotics and AI club of IIT ISM Dhanbad.

EXTRACURRICULARS

- Learning new technologies, reading books.
- Writing stories and poems
- **Basketball** team member
- **Bachelor of Arts in Bharatanatyam** under Prayag Sangeet Samiti.