

# ADITYA SAH

Nainital, India 📍 +91 9548692418

✉ adisah2003@gmail.com 🔗 LinkedIn 🐙 Github

## Education

### University of Petroleum and Energy Studies

*B.Tech in Computer Science Engineering*

2021 – 2025

CGPA: 8.4/10

### Bhartiyam International School

*Intermediate (PCM)*

2019 – 2021

Percentage: 91.8%

### St. Joseph's College

*High School*

– 2019

Percentage: 90.6%

## Relevant Coursework

- Data Structures and Algorithms
- MySQL
- Java
- IoT and Embedded Systems
- Machine Learning
- Raspberry Pi

## Experience

### IBM

June 2024 – July 2024

*Smart Fleet Management System Developer*

*Remote*

- Developed a Smart Fleet Management System using Arduino UNO, integrating various sensors and actuators.
- Implemented shortest path calculation using ORS API to optimize fleet routes, improving operational efficiency by 30%.
- Simulated the system comprehensively using TinkerCAD to ensure functionality and reliability before deployment.

### Let's Give Hope Foundation

May 2022 – July 2022

*Environmental and Educational Awareness Promoter*

*Nainital, Uttarakhand*

- Organized and executed tree planting events, enhancing local green cover.
- Conducted educational workshops, impacting over 500 children, and led clean-up drives in 5 communities.
- Spearheaded initiatives to educate 1000+ students on environmental sustainability and the importance of education.

## Projects

### Automated Parking System | Python, TensorFlow, MySQL, Raspberry Pi, CNN, Sockets



- Developed an Automated Parking System integrating real-time tracking, ESP Cam-based number plate recognition, and automated billing, optimizing space utilization by 40% and reducing wait times by 50%.
- Designed and deployed a deep learning model for accurate number plate text extraction in diverse conditions.

### Smart Irrigation System with Predictive Analysis | Python, Raspberry Pi, TensorFlow, Scikit-learn



- Created a Smart Irrigation System with automated irrigation and remote monitoring, utilizing machine learning for optimization, resulting in a 20% increase in water efficiency.
- Integrated soil moisture detection to automatically trigger water pumps, minimizing water wastage.

### Smart Lock System with Facial Recognition and OTP Integration | Python, CNN, Arduino, Sensors



- Developed a Smart Lock System with CNN-based facial recognition and OTP integration, enhancing security and user convenience.
- Optimized the system for real-time access control, reducing authentication time by 35%.

## Technical Skills

**Languages:** Java, Python, C,SQL

**Frameworks:** Swing, TensorFlow, Scikit-learn, Keras

**Tools/Databases:** MySQL, Git, Linux, RESTful APIs

## Leadership / Extracurricular

- Attended Drone Technology and Application Bootcamp, in collaboration with NIT Kurukshetra.
- Four-time State Level Champion in Taekwondo and participated in four National-level tournaments, winning a Bronze medal in 2015.
- Awarded "School's Best Gymnast" in 2018 and 2016.