# Aditya Kumar Mishra

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## Skills

**Languages:** C, Java, Python & Advance python, JavaScript, TypeScript, SQL, R programming, Html CSS, Matplotlib, Kotlin.

**Technologies & Tools: Technologies & Tools:** AWS (EC2, DynamoDB, S3, SQS, Lambda, Athena), Elasticsearch, Spark, Hive, Spring, Angular, ReactJS, Jupyter Notebook, MongoDB, Pandas, Blockchain(learning)

## Work Experience

**Internship trainee**

- Bharat IQ Internship company
- Swadesh Intern Internship company
- Pusha Krishi grants 2024
- Co-Founder of Swadesh Intern Internship company

## Education

- **Central Board of Secondary Education (CBSE)**
  Secondary (Class 10)
  2020

- **Central Board of Secondary Education (CBSE)**
  Senior Secondary (Class 12)
  2022

- **Noida Institute of Engineering and Technology (NIET), Greater Noida**
  B. Tech in Computer Science and Engineering
  2022 - 2026 (Expected)

**Affiliated to:** Dr. A.P.J. Abdul Kalam Technical University, Lucknow

**Current Status:** Pursuing (3$^{rd}$ year)

**Relevant Coursework:** Object Oriented Programming, Databases, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advanced Data Structures and Algorithms, Information Retrieval, Image Processing

## Project Work

**Smart Irrigation System Through Wi-Fi** (2023)

- Developed an IoT-based smart irrigation system that monitors soil moisture levels and controls water supply automatically.

- Integrated Wi-Fi connectivity to allow remote monitoring and control through a mobile application.

- Utilized sensors for real-time data collection and implemented algorithms to optimize water usage based on soil moisture data.

- **Technologies:** Arduino, IoT, Python, MQTT, Mobile App Development

## Customer Segmentation Using Clustering (2023)

- Conducted customer segmentation analysis for an e-commerce platform using clustering algorithms.

- Utilized K-means clustering to identify distinct customer groups based on purchasing behaviour and demographic data.

- Provided actionable insights for targeted marketing strategies to improve customer engagement and sales.

- **Technologies:** Python, Pandas, scikit-learn, Jupyter Notebook

## Predictive Maintenance for Manufacturing (2022)

- Developed a predictive maintenance model to forecast equipment failures in a manufacturing plant.

- Collected and analysed sensor data from machinery to identify patterns and predict potential breakdowns.

- Implemented a machine learning model to schedule maintenance before failures occur, reducing downtime and maintenance costs.

- **Technologies:** Python, Pandas, TensorFlow, Jupyter Notebook, SQL

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# Awards and Certificates

**Noida Institute of Engineering and Technology (NIET) Award for Smart Irrigation System**
Received recognition from NIET for developing an innovative IoT-based smart irrigation system.

**Winner of NIET Hack-X 2.0 Hackathon**
Secured first place in the NIET Hack-X 2.0 hackathon competition, showcasing skills in software development and innovation.

**Coursera Certificates**

- Python for Everybody
- Advanced Python
- Java Programming and Software Engineering Fundamentals
- Data Analysis with Python

**Infosys Certifications**

- Data Analysis using R
- Java Fundamentals
- Advanced Java Programming

**Microsoft Certifications**

- Data Analytics
- Android Development (Bharat IQ)