

# DEEPAK KUMAR SAHU

Madhubani, Bihar

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## EDUCATION

Indian Institute of Information Technology, Guwahati

12 2020 – 06 2024

B.Tech - 6.24 - CSE

Guwahati, India

Mahatma Gandhi College, Darbhanga

2016 – 2018

BSEB - I.Sc - 69%

Darbhanga, India

Dayaram High School, Bheja

2014 – 2016

BSEB - Matric - 71.6%

Madhubani, India

## COURSEWORK

- DSA
- Software Engineering
- Cloud Computing
- OOPS
- Operating Systems
- DBMS
- Machine Learning
- Big Data(Hadoop)

## PROJECTS

Email Spam Detector-IIITG | Python, Bootstrap, Jupyter notebook

2022

- Engineered and implemented machine learning models (e.g., Naive Bayes, SVM) for email spam classification, utilizing Python and TensorFlow to analyze email content and metadata effectively.
- Designed and optimized data preprocessing pipelines using Pandas and NumPy, ensuring data quality and consistency for model training and evaluation.
- Conducted rigorous testing and validation of spam detection algorithms using cross-validation techniques and performance metrics (e.g., precision, recall, F1-score), achieving high accuracy rates and minimizing false positives.

E-commerce Website-IIITG | Django, Bootstrap, MongoDB

2023

- Spearheaded the development of front-end parts for E-commerce, using Django and Bootstrap to create dynamic and responsive UI that enhanced customer engagement and usability.
- Integrated third-party payment gateways (e.g. PayPal) to facilitate secure online transactions, implementing encryption protocols and PCI compliance measures to safeguard user financial data. .
- Engineered backend APIs using Django and MongoDB to support critical functionalities such as product catalogue management, user authentication, and order processing, ensuring robustness and scalability. .

Air Quality Prediction -IIITG | Bootscrap, Django, MongoDB, Beautiful Soup(webScrapping)

2024

- Engineered and deployed ML models (e.g., ensemble algo) using TensorFlow and Keras for precise and localized air quality predictions, leveraging big data analytics and cloud infrastructure (AWS).
- Developed scalable data pipelines using Apache Spark and Kafka to handle large volumes of real-time environmental data from IoT sensors and satellite imagery, ensuring robustness and efficiency in data processing.
- Developed and integrated web scraping scripts in Python to gather real-time data from multiple sources, including email headers and content, enhancing the accuracy and scope of spam detection algorithms.

## EXPERIENCE

NullClass EdTech Private Limited [↗](#)

08 2023 – 01 2024

Data science Intern

Krishnagiri, Tamil Nadu

- Engineered and deployed an Emotional Detection System using machine learning models such as LSTM and CNN in Python, analyzing textual data to classify emotions with an accuracy of 20%.
- Build interactive data visualization dashboards using Plotly, enabling stakeholders to explore and interpret emotional trends and insights derived from social media and customer feedback data.

## TECHNICAL SKILLS

**Languages:** C, C++, Python, Java, JavaScript, SQL, MongoDB

**Developer Tools:** VS Code, Jupyter Notebook, Canva, openAI

**Technologies/Frameworks:** Linux, Git, GitHub, django, Bootscrap, Docker , Hadoop