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AMAN GUPTA

DATA SCIENCE AND SOFTWARE ENGINEER

Objective

I am a highly motivated and detail-oriented Data Science and Software Engineering student eager to apply my knowledge and skills to a dynamic internship opportunity. Seeking to gain hands-on experience in a professional setting, I aim to contribute to innovative projects, collaborate with experts in the field, and further develop my capabilities in data analysis, machine learning, and software development. My goal is to make a meaningful impact while honing my problem-solving and teamwork skills in a real-world context.

Education

2004-2018 **Kherwadi Mumbai Public School, Aseema**
SSC Board of Maharashtra

The Maharashtra State Board of Secondary & Higher Secondary Education with **67%**

2018-2022 **Government Polytechnic Mumbai**
Diploma in Electronics

Government Polytechnic, Mumbai. Diploma Electronics engineering with **82%**

2022-2025 **Fr. Conceicao Rodrigues College of Engineering**
Bachelor of Engineering (BE) Electronics and Computer Science Engineer

Bachelor of Engineering (BE) Electronics and Computer Science Engineer pursuing semester with **72%**

Honors and awards

2023 **Honours Degree in Artificial Intelligence and Machine Learning**

2023 **Smart India Hackathon (SIH)**
The e-Yantra Innovation Challenge is an annual robotics competition organized by the e-Yantra project at the Indian Institute of Technology (IIT) Bombay. The e-Yantra project is an initiative that aims to promote education and innovation in the field of robotics and embedded systems.

Honors and awards

2023 **e-Yantra Innovation Challenge (IIT BOMBAY)**

The e-Yantra Innovation Challenge is an annual robotics competition organized by the e-Yantra project at the Indian Institute of Technology (IIT) Bombay.

2023 **e-Yantra Robotics Competition (IIT BOMBAY)**

The e-Yantra Robotics Competition is an annual robotics competition organized by the e-Yantra project at the Indian Institute of Technology (IIT) Bombay. The e-Yantra project focuses on nurturing students' interest in robotics and embedded systems and offers a platform for them to learn, innovate, and showcase their robotics skills.

2022 **National Level Project Presentation Competition**

National level project for securing 1st place in national level project presentation competition

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Aim of Internship

My primary objective for this internship is to apply my academic knowledge in data science and software engineering to practical, real-world scenarios. I intend to gain hands-on experience in a professional setting to:

- **Expand Technical Skills**: Enhance my proficiency in programming, data analysis, and machine learning techniques by working on live projects and collaborating with experienced professionals.
- **Problem-Solving**: Sharpen my problem-solving and critical thinking abilities while tackling complex data-related challenges and contributing to innovative solutions.
- **Industry Exposure**: Gain a deeper understanding of industry practices, standards, and best practices within the field of data science and software engineering.
- **Teamwork and Collaboration**: Collaborate with a diverse team to strengthen my interpersonal and teamwork skills while also learning from my peers.
- **Contribute Meaningfully**: Contribute to projects that make a positive impact on the organization and its clients, furthering my passion for using data-driven insights to drive decision-making.
- **Networking**: Build valuable professional connections and learn from mentors in the field, paving the way for future career opportunities.

Project Experience

The primary aim of my machine learning (ML) project is to leverage algorithms and data to solve specific problems or automate tasks. Whether it's classifying emails, predicting real estate prices, clustering customer data, or enabling recommendation systems, ML endeavors to harness patterns in data for valuable insights. By choosing the right ML technique, such as regression, classification, or natural language processing, the goal is to build models that can make accurate predictions or automate decision-making processes.

2022-2023

Project: Drones For Agriculture – Mapping & Spraying

Role: Drone Systems Engineer

During my role as a Drone Systems Engineer, I was a key contributor to the deployment of drones for agricultural purposes, focusing on mapping and precision crop spraying. This encompassed a range of responsibilities, including the setup and calibration of agricultural drones to ensure accurate data collection and spraying operations.

2022-2023

Project: People Counting in real time using OpenCV

Role: Machine Learning Engineer

In my role as a Computer Vision Engineer, I undertook the development of a real-time "people counter" application using OpenCV and Python, tailored to the needs of a department store. Leveraging OpenCV's advanced object detection and tracking capabilities, I created a solution capable of accurately counting the number of people entering and exiting the store in real-time.

2022-2023

Project: Forest Fire Detection using LoRa Wireless Range up to 2km (IoT)

Role: Project Lead

As the Project Lead, I spearheaded the design and development of a Forest Fire Detection System harnessing LoRa technology, which enabled wireless communication over an impressive range of up to 2 kilometers. This innovative system incorporated IoT sensors to monitor a spectrum of environmental conditions associated with forest fires, including temperature, humidity, and smoke levels. Leveraging LoRa communication, we established a real-time data transmission channel to a central monitoring station, ensuring swift responses to potential fire outbreaks.

2022-2023

Project: Email Spam Classifier
Role: Machine Learning Engineer

I have gained valuable experience in machine learning and data science through hands-on projects, including an Email Spam Classifier and an SMS Spam Classifier. As a Machine Learning Engineer, I developed an Email Spam Classifier that utilized natural language processing (NLP) techniques to accurately detect spam emails.

Skills

Programming

Programming

- **Programming Languages: Python, Java, C++**
- **Data Analysis: Pandas, NumPy**
- **Machine Learning: Scikit-Learn, TensorFlow**
- **Data Visualization: Matplotlib, Seaborn**
- **Database Management: SQL**
- **Web Development: HTML, CSS, JavaScript**
- **Version Control: Git, GitHub**
- **Software Development: Agile, Scrum**
- **Tools: Jupyter Notebook, Visual Studio Code, colab.**
- **Operating Systems: Windows, Linux**
- **Problem Solving and Critical Thinking**

References

Mr. Santosh Panigrahi Head - Alumni Programme, Aseema
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