Rohit Agarwal
Data Scientist Intern

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Summary

Dynamic and driven 2nd-year Computer Science Engineering student with a strong foundation in data science and hands-on experience through three internships. Skilled in leading teams and collaborating on diverse projects, including developing a React-based application with Express back-end where I led a team, conducting various data science projects, and contributing to an NLP model for an autonomous and adaptive drone project. Proven ability to thrive in collaborative environments, with a keen interest in leveraging technology to solve real-world problems.

Experience

EISystems Services — Remote, India
Data Science Intern — March 2024 - April 2024

- Completed a rigorous two-month training program focused on Python and data science fundamentals.
- Executed 11 machine learning projects, gaining hands-on experience in various domains.
- Developed proficiency in applying machine learning algorithms to real-world datasets.
- Collaborated with peers to solve complex problems and deliver innovative solutions.
- Demonstrated strong analytical and problem-solving skills through project work.

IBM SkillBuild — Remote, India
Data Science Intern Team Lead — June 2023 - August 2023

- Led an 8-member team in executing the Lung Cancer Analysis Project.
- Implemented machine learning algorithms, achieving significant accuracy improvements.
- Managed project timelines and provided mentorship to team members.

Mouktik Consulting Services — Udaipur, India
Data Science Intern — January 2023 - February 2023

- Analyzed complex datasets, creating insightful visualizations for stakeholders.
- Applied advanced data cleaning techniques to ensure data integrity.
- Collaborated with senior data scientists on client projects, contributing to successful outcomes.

Projects

BookFlow - React App — June 2023 - September 2023

- **Description:** Developed a comprehensive library management web application to streamline book management processes. The application utilized React.js for the frontend to provide a dynamic user interface and employed serverless Lambda functions for the backend, ensuring scalability and cost-effectiveness.

- **Responsibilities:**

  - Led a team of 5 members as Project Manager, overseeing project milestones, task assignments, and deadlines to ensure timely delivery and effective collaboration.

  - Collaborated closely with frontend and backend developers, providing guidance on technical implementation and ensuring alignment with project objectives.

- **Technologies Used:** React.js, Serverless Framework, AWS Lambda

Ar barzaar May 2023 - July 2023

- **Description:** Designed and developed an innovative E-commerce platform dedicated to books, offering users a seamless browsing and purchasing experience. Leveraged the Flask framework to build a robust backend infrastructure and implemented web scraping techniques using a Spider to gather book data from various sources.

- **Responsibilities:**

  - Independently conceptualized and executed the project, from initial design to final deployment, ensuring high-quality deliverables and adherence to project timelines.
  - Integrated payment gateways and user authentication features to enhance the platform's functionality and security.

- **Technologies Used:** Flask, BeautifulSoup, SQLAlchemy

Drone Speech Command NLP Model April 2024 - Present

- **Description:** Developed an advanced NLP (Natural Language Processing) model capable of interpreting live speech commands for drone control. Utilized whisper technology for live speech-to-text conversion and implemented state-of-the-art BERT (Bidirectional Encoder Representations from Transformers) architecture for accurate command recognition.

- **Responsibilities:**

  - Solely engineered the NLP model, from data preprocessing to model training and evaluation, ensuring robust performance under real-world conditions.
  - Integrated the NLP model with the drone control system, enabling seamless interaction between voice commands and drone actions.

- **Technologies Used:** BERT, TensorFlow, Whisper Technology

Certificates

1. **Great Learning**

   - Linux tutorial
   - CSS
   - HTML

2. **HackerRank**

   - Python basic
   - SQL basic

3. **Kaggle**

   - Intro to Machine Learning
   - Pandas
   - Intro to Programming

4. **Scalar**

   - Scalar - Data Science Course - Mastering the Fundamentals

5. **CS50**

- CS50x

Education

Techno India NJR Institute of Technology   Udaipur, India

Bachelor Of Engineering in Computer Science and Technology   2022-2026

- Major subjects: Software Engineering, Fundamentals of Computer Science, Programming, Operating Systems, Algorithms and Data Structures, Machine Learning.

Central Public Seior Secondary School   Udaipur, India

Class XII (CBSE) - Science/Maths   2020-2022

Skills & Interests

Technical Skills:

- Programming Languages: Python, JavaScript, SQL
- Data Science & Machine Learning: Pandas, NumPy, Scikit-learn, TensorFlow, Keras
- Web Development: React.js, Flask, Node.js, Express.js, HTML/CSS, RESTful APIs
- Database Management: MySQL, MongoDB
- Version Control: Git, GitHub
- Cloud Platforms: Google Cloud Platform (GCP)
- Natural Language Processing (NLP): NLTK, spaCy
- Web Scraping: Scrapy
- Software Development Tools: Jupyter Notebook, VS Code, PyCharm, Postman

Soft Skills:

- Leadership: Leading cross-functional teams, project management
- Communication: Clear and concise verbal and written communication, active listening
- Collaboration: Working effectively in team environments, fostering teamwork
- Mentorship: Providing guidance and support to team members, sharing knowledge
- Adaptability: Quickly adapting to new environments, technologies, and methodologies
- Problem-Solving: Analyzing complex issues, proposing creative solutions
- Critical Thinking: Evaluating situations, making informed decisions
- Time Management: Prioritizing tasks, meeting deadlines
- Client Management: Building strong relationships, understanding client needs