HARSHITA PANCHAMIA

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Detail-oriented and with great communication and coding skills, 1.7 months of experience in writing and executing data-driven solutions, strong communication, and technical skills to increase the efficiency and utility of internal data processing. Experienced at creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business intelligence problems.

PROFESSIONAL EXPERIENCE

INDIAN INSTITUTE OF TECHNOLOGY (IIT), BOMBAY **11/2022 – 07/2023**
ARTIFICIAL INTELLIGENCE RESEARCH INTERN

- The National Centre for Aerospace Innovation and Research (NCAIR) is a collaborative consortium of the Indian aerospace manufacturing sector providing research and technology to its members with a vision to create a world-class aerospace manufacturing ecosystem in India. Achievements/Tasks
- Worked on various machine learning projects using Deep Learning and Natural Language
- Processing. Worked on Predictive Maintenance of Aircraft Engines using Binary class regression and multi-class regression.
- Made a Startup Success Prediction project which will help the clients invest in startups that could provide long-term profit. Worked on analytical and various deep learning, Time series, Clustering, Regression, decision trees, machine learning models, computer science, and research and development projects

PRISTINE INFOSOLUTIONS. **07/2022 - 10/2022**
CYBER SECURITY ANALYST INTERN

- Pristine InfoSolutions Pvt. Ltd. is a global IT service and Information Security company based in Mumbai, India Achievements/Tasks
- Assist with vulnerability assessments and penetration testing for specific services and ne, networks,
- Servers, and application suited. Assistance with the deployment and upkeep of software content for the IT security team according to customer needs

FLIP ROBO TECHNOLOGIES **02/2022 - 08/2022**
DATA SCIENTIST INTERN

- Worked on a telecom industry project in providing micro-credit loans to which type of consumers by consideration of various inputs using machine learning and analytics.
- Worked on a Fake news Detection Project using Natural Language Processing (NLP) /Machine learning.
- Worked in a COVID-19 hackathon machine learning-based project in which we needed to analyze the type of patients most infected by the virus by taking blood samples.
- Worked on various deep learning, Time series, collaborations, and machine learning models.

EDUCATION

MIT University **2023-Present**
Master's of Science | Data Science and Big Data Analytics
Mithibai College of Arts, Science and Commerce **2018-2020**
Bachelor's of Science | Physics

SKILLS

Python	Deep Learning	Statistics	Tableau	Large Language Models
Data Mining	Data Cleaning	LangChain	Power BI	Natural Language Processing
Machine Learning	Amazon SageMaker	Hugging Face	Web Scraping	
SQL	Data Visualization	GooglePalm		

KEY PROJECTS

Introducing our FAQ Chatbot (01/2024 - Present)

- Tech stack: Python, Natural Language Processing (NLP), TensorFlow, ChatGPT, Dialogflow.
- Objective: Designed to enhance user experience by providing instant, accurate responses to frequently asked questions.
- Solution: Leveraging cutting-edge NLP technologies, our chatbot understands and interprets user queries, offering prompt and relevant answers.
- Achievements: Seamlessly handles inquiries on a wide range of topics, ensuring users have a smooth and productive interaction.

NLP Case Similarity Analyzer and Recommendation System (01/2024 - Present)

- Tech stack: Python, Natural Language Processing (NLP), Spacy, Gensim, Flask, Java, HTML.
- Objective: Empowering legal professionals with an efficient tool to analyze case documents, determine similarities, and provide recommendations for relevant articles.
- Solution: My NLP model processes legal cases and judgments, extracting key features and utilizing advanced similarity measures to identify related articles. The system is complemented by a user-friendly webpage created using Java, HTML, and Flask, allowing easy interaction and seamless access to the results.
- Achievements: Successfully developed a robust NLP model that reads and compares legal documents, presenting users with the most relevant and similar articles. The accompanying webpage enhances user accessibility, providing an intuitive interface for efficient utilization.