Purvi Verma

Roll No.:20CE01050
B.Tech. - Civil Engineering
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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech Civil Engineering	Indian Institute of Technology, Bhubaneswar	8.16	November 2020 - Present
XII	CBSE Board	92.2%	2020
X	CBSE Board	91.6%	2018

Internship Experience

- **Blockatena** *March 2023 - May 2023*
  Artificial Intelligence Intern Remote
  - Design and developing deep learning models, such as Convolutional Neural Networks (CNN) and Generative Adversarial Networks (GAN).
  - Assisting in data preprocessing, including data cleaning and feature extraction.

Projects

- **Detecting sexist texts in Indian context** *September 2022 - Present*
  Supervisor(s): Dr. Rajesh Sharma, Unitersity of Tartu; Dr. Kisor Kumar Sahu, IIT Bhubaneswar
  - The research focuses on detecting sexist text in Indian context in several languages with a focus on minimising bias.
  - Extracting textual data from social media sites like Reddit, Twitter, Facebook, YouTube using a web scrapper.
  - Focus on developing new models and using known models to train them using the extracted data set and verifying how well these models work on new data.

Skills Summary

- **Languages**: Python, C/C++, HTML, CSS, JavaScript, Julia
- **Tools**: Microsoft Power BI, MySQL
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

Research Experience

- **Amazon Data Scraping Crawler**
  - The project entails the development of a web crawler leveraging Selenium and Beautiful Soup to enable automated daily data extraction from Amazon.
  - The primary objective is to compile targeted product information and curate a comprehensive dataset suitable for further analysis.
  - The crawler will adeptly navigate through product pages, adeptly extracting crucial data points such as product names, prices, reviews, and ratings.
- **Customized Text Summarizer**
  - The project is a full-stack web application that utilizes HTML, CSS, and JavaScript for the frontend and Flask with Python for the backend.
  - It simplifies the extraction of key information from large texts by generating concise summaries based on custom word or sentence length.
- **TripAnalyzer**
  - The TripAnalyzer project employs data processing, analysis, and visualization techniques to examine mobility patterns and hotspots in Beijing.
  - It utilizes clustering (DBSCAN), evaluation (silhouette score), interactive map visualizations(folium), and network analysis (OSMnx with networkx).
  - The project aims to gain insights into user mobility behaviors, trip connections, depot usage, distances traveled, and hotspot identification.

Courses

- **DeepLearning.AI**, Build Basic Generative Adversarial Networks (GANs)
- **IBM**, Introduction to Web Development with HTML, CSS, JavaScript
- **University of Michigan**, Applied Text Mining in Python
- **DeepLearning.AI**, Supervised Machine Learning: Regression and Classification
- **Kaggle**, Intro to SQL
- **Google**, Crash Course on Python

Positions of Responsibility

- **Governor**, Souls for Solace, IIT Bhubaneshwar *May. 2021 - May. 2022*

Achievements

- **Ranked 4th**, in Amazon Product Data Scraping Crawler Making Competition Organized by IconBaby mOm Company.
- **Ranked 5th**, in CSS battle competition organized in GC at IIT BBS.
- **Ranked 1st**, Football team goalkeeper organized in GC at IIT BBS.
- **Ranked 3rd**, AstroThink organized in GC at IIT BBS.
- **Selected**, for Next Generation Women Leaders Asia Pacific *2023*