Ishika Bhaumik

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https://github.com/ishikabhaumik

Education

2018 – 2022 Bhubaneswar
Bachelor of Technology in Computer Science
Kalinga Institute of Industrial Technology
CGPA - 9.10

Skills

Languages- Python, C/C++, Java
Database- SQL, Snowflake
Web development- JavaScript, HTML, CSS
Tools- Eclipse, Visual Studio, Jupyter Notebook, Git
Model Development- Data manipulation and visualization, Machine Learning, Deep Learning, NLP

Publications and Research Work

2020/06 – 2021/10
Publication: Understanding evolution of COVID-19 driven mortality rate medRxiv, https://doi.org/10.1101/2022.01.16.22269210
Ishika Bhaumik, Suman Sinha-Ray, Anshul Chaudhary, Abhishek Srivastava, Prashant Kodgire
Utilized **FFT-driven Machine Learning in Python** to analyze COVID-19 mortality rates across countries and identify correlations with socio-economic factors and food habits, revealing close dependencies. Derived insightful conclusions, presenting findings through visualizations and reports, contributing to scientific discussions.
Supervisor-
- Dr. Abhishek Srivastava (Prof. at **Indian Institute of Technology, Indore**)
- Dr. Suman Sinha Ray (Adjunct Associate Professor at **University of Illinois, Chicago**)
- Dr. Prashant Kodgire (Prof. at **Indian Institute of Technology, Indore**)

2021/01 – 2021/06
Hyperparameter Optimization for convolutional neural network for classification of Chest X-ray dataset
Lalit Vashistha, Ishika Bhaumik
Used Python based CNN model to optimize various hyper-parameters involved in classifying the chest X-ray image dataset.
Supervisor-
- Lalit Vashistha

Professional Experience

2022/08 – present
Technical Analyst
Novartis
- Using Python and snowflake to develop solutions to automate processes or assist associates to perform better by increasing efficiency and optimizing efforts.
- Design and deploy a machine learning model to craft a predictive solution.
- Develop UI for better user experience
- Strategically deploy the solution to make it scalable and manageable

2022/01 – 2022/06 **Analyst Intern**
Novartis
- Utilized **data science techniques** and **python** to analyze **pharmaceutical quality datasets** to enable data-driven insights.

2021/06 – 2022/01 **SDE Intern**
Highradius Technologies
Developed automated data extraction and transformation pipeline using **SQL** and **Python** to achieve efficiency.

Other Projects

Python Based Chatbot and Personal Assistant
- Utilized **Python** and **NLP** to train on text data, enabling extraction of information from websites and performing various other advanced functionalities.Proficient in both typed and speech command comprehension.

Image to text
- **Python**-based **OCR** project extracting text from images and providing the top three Google URLs related to the extracted text.

Driver Drowsiness Detection
- A **python and open-CV** based project to detect drowsiness of a driver from video footage.

Reddit Comment Analysis
- Developed a python and NLP based model to classify Reddit comments as sarcastic or non sarcastic.

Skin Cancer detection using Skin lesion image dataset
- Developed a python code for a CNN model on Kaggle to detect skin cancer on skin lesion image dataset

Prediction of the Heart Attack
- This model helps to classify whether a person with certain features and attribute might suffer from Heart-Attack or not. The attributes may range from age, sex, chest pain type (4 values) to the slope of the peak exercise ST segment and number of major vessels (0-3) colored by fluoroscopy

Coding Profiles

- Leetcode
- Codechef
- Hackerrank

Key Accomplishments

- 100 Days Badge 2022 on Leetcode
- Solved 500+ questions on LeetCode/Codechef/InterviewBit
- Gold Level in problem solving on Hackerrank

Hobbies

- Competitive Programming
- Reading Books
- Writing Blogs
- Singing