Harsh Mondal
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Profile

I'm a skilled Python developer with expertise in machine learning, data analytics, and software development. With hands-on experience in AI projects like brain tumour detection, I bring strong problem-solving abilities and adaptability. Proficient in Python, JavaScript, and key frameworks, I'm eager to apply my skills to innovative, real-world solutions.

Technical Skills

- Machine Learning & AI
- Computer Vision
- Android Development
- Python
- Data Analysis
- .NET Framework
- Django/Flask
- Java
- Web Development
- Data Structure and Algorithms
- Big Data and Databases

Education

S.K Somaiya University March 2024
Bachelor of Science, Computer Science Honors
- Scored an overall GPA of 9.02
- Undertook an exchange semester (4th semester) at Technische Hochschule Ingolstadt (Germany)
  - Engaged in Artificial intelligence and cross culture learning and academic experiences

HSC board August 2021
Ramniranjan jhunjhunwala College
- Scored 83.5% in Hsc board examination

SSC Board June 2019
G.G.S English High School
- Passed 10th grade with 81.4% into distinction

Experience

Currently a fresher, seeking to apply my skills in machine learning, data analytics, software development.

Projects

- **Brain Tumor Detection System**
  - Developed an AI-based system to detect and classify brain tumours using medical imaging.
  - Implemented in Python using Flask for the backend and React for the frontend.
  - Integrated TensorFlow for machine learning and Firebase for data management.
  - Provided a web-based interface for easy upload and real-time diagnosis of brain scans.

- **Simple Salary Prediction using Linear Regression:**
  - Developed a salary prediction model using linear regression
  - Utilized relevant features to predict salary based on input data
  - Demonstrated understanding of machine learning and regression techniques

- **NLP Project: SMS Spam Detection using Naive Bayes and TF-IDF**
  - Built a natural language processing model to detect SMS spam
  - Utilised Naive Bayes classifier and TF-IDF features for text analysis
  - Achieved high accuracy in classifying spam and non-spam messages

- **Word Embedding and Clustering using Word2Vec**
  - Employed Word2Vec model to generate word embeddings
  - Applied K-means clustering to group similar words
  - Utilised PCA for dimensionality reduction and visualisation
  - Visualised word clusters for better understanding

Courses

Google Data Analytics Specialization (By Google, July 2024):
Focused on data cleaning, preparation, analysis, and visualization using R programming. Completed a capstone project with a real-world data case study.

IBM Machine Learning Specialization (By IBM, June 2024):
Covered exploratory data analysis, supervised and unsupervised learning, deep learning, and reinforcement learning. Included a capstone project applying these concepts.

Software Engineering Specialization (By The Hong Kong University of Science and Technology, June 2024):
Studied software engineering principles including UML modelling, implementation, testing, and project management for software design.

Computational Thinking for Problem Solving (By University of Pennsylvania, June 2024):
Explored computational thinking and algorithm development using Python to solve real-world problems with a focus on social impact.

C# for .NET Developers (By Board Infinity, June 2024):
Mastered ASP.NET fundamentals and .NET framework components with C#. Covered basics, control structures, LINQ, polymorphism, encapsulation, and exception handling.

Advanced Python Course (By Internsllite, August 2023):
Advanced Python concepts with a focus on machine learning applications, including supervised and unsupervised learning techniques.

Language

English : Highly proficient in speaking and writing
Hindi : Very good command
German : A1 levels