SOURAV MUKHERJEE

Hooghly, West Bengal, India

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PERSONAL DETAILS

• FATHER NAME: Bhaskar Mukherjee

• D.O.B (DD/MM/YYYY): 01-11-1999

• PERMANENT ADDRESS: 11, Ghosh Para lane, Hooghly, West Bengal, India,712245.

• SEX: MALE

EDUCATION

Heritage Institute of Technology, Kolkata

09/2021 - 06/2024

Btech in Electronics & Communication Engineering - CGPA - 7.89

Kolkata, West Bengal

Ramakrishna Mission Shilpamandira, Belur Math

05/2018 - 06/2021

Diploma in Electronics & Telecommunication Engineering - Percentage - 85.2%

Howrah, West Bengal

Uttarpara GOVT High School

03/2016 - 04/2018

(WBCHSE)XII - Percentage - 63%

Hooghly, West Bengal

COURSEWORK / SKILLS

• Machine learning

- Electronics Devices
- Artificial Intelligence
- Microsoft Office 365

- Communication
- Web Development
- OOPS Concept
- Data Science

PROJECTS

Path Loss Prediction Model Machine learning, Python, MS-Excel, IDE-VS code

04/2024

- In 5G and similar high-frequency communication, signal power emerges as a critical factor. If the signal power vary according to the traffic generation it can save a significant amount of cost for signals transmission.
- Collected data from the Wallfish Ikigami model, including 6 parameters from Qualnet simulator, to create a CSV file consisting of 12,000 data points. Split the data, allocating 80% for training and 20% for testing the model.
- Trained the base model using Decision Tree Regressor, Gradient Boosting, Random Forest Regressor, and KNN Regressor models. Employed Linear Regression as the final estimator to create a stacked regression model for predicting path loss.
- Evaluated model against individual models and discovered that the trained model outperformed them. Trained model Mean Squared Error (MSE) is 0.818696, Mean Absolute Error (MAE) is 0.547446, and Root Mean Squared Error (RMSE) is 0.904818.

Movie-Lens 20M Dataset Analysis 🗷 | Python, Pandas, MS-Excel, IDE-VS code

07/2023

- Conducted comprehensive analysis of Movie-Lens **20M dataset** to extract insights on **movie ratings**, **genres**, **and user behavior**. Demonstrated proficiency in handling data, identifying trends, and providing actionable insights for informed **decision-making**.
- Utilized **Python and pandas library for data analysis**, encompassing tasks from data collection to visualization. Presented key findings and **recommendations based on dataset patterns** and **genre-specific movie analysis**.

HOME AUTOMATION USING 8051 🗷 | 8051uc, Bluetooth module HC-05

02/2021

• Revolutionize home with the cutting-edge 8051 Microcontroller based project for home automation, powered by HC-05 technology. Seamlessly control the home appliances with just a tap, bringing convenience and efficiency to fingertips.

INTERNSHIP

Campalin Innovation private Limited

06/2023 - 07/2023

Bengaluru, Karnataka

• Internship in Machine learning with Python in association with Campalin from

TECHNICAL SKILLS

Languages: Python, Java, C++

Developer Tools: VS Code, MS Excel, Jupyter notebook, Goggle Collab, Intellij Idea, QualNet Simulator

PUBLICATION

Analysis of High Frequency Uplink Downlink Channel Parameter with Various K Factor | February 2024 | IJIRT | Volume 10 Issue 9 | ISSN: 2349-6002 | Paper link ☑

CERTIFICATIONS

- Python for Data Science, AI & Development- Coursera \square
- Core Java Coursera 🗷
- Technical Support Fundamentals- Coursera
- Leadership Skills Coursera