Shreya Paul

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Education

Techno Main Salt Lake   Salt Lake, Kolkata

B.tech. in Computer Science & Data Science with 8.7 GPA   2021 – 2025(present)

Projects

Bengali Song Mood Detector: visit project

- Developed a deep learning model and web application to detect emotions in Bengali songs.
- Constructed a dataset of Bengali Folk and Contemporary songs with over 12 attributes.
- Crafted a Neural net that can predict the song mood with 85%+ accuracy .

Mental Therapy through Song Mood Classification: Github repo

- Integrating Music and Technology for helping to transform mental therapy by combining AI and music to classify songs by mood and recommend personalized playlists.

Experience

National Institute for Industrial Training

Event Coordinator   Feb 22 - Aug 22

- Gained on-site experience in the corporate sector.

Feynn Labs

Machine Learning Intern   Aug 23 - Nov 23

- Led a team of 5 members to complete 3 projects including developing a secure web application that reduced network security threats by 99.4%.
- Python, Pandas, Agile, Model Development, Data Preprocessing, Predictive analysis tolls are used.

Celebal

Data Science Intern   May 24 - July 24

Achivements

- Published a ***Research Paper*** in the 3rd International Conference on Advanced Computing and Applications (ICACA 2024)
  - Paper entitle "Exploring Selection Strategies: A Comparative Study of Rank and Tournament Selection Methods in Offspring Music Rhythm Generation"
  - This paper thoroughly compares Genetic Algorithm (GA) performance in selecting parent music rhythms for generating diverse offspring rhythms.
- **Smart India Hackathon:** ranked 30 out of 160 teams (College Level).

Skills & Technologies

- **Programming Languages:** Java, Python, C, SQL, NOSQL
- **Frameworks-Libraries:** Scikit-Learn, TensorFlow,MongoDB
- **Web Development :** HTML, CSS, JS
- **Data Analysis & Visualization:** Power BI, Excel , Libraries: Pandas, NumPy, Matplotlib, Seaborn
- **Machine Learning :** Regression, Classification, Deep Learning,Clustering,Prediction- Recommendation System
- **Development Environments and Tools:** Jupyter Notebooks, Google Colab, Anaconda, Visual Studio, MySQL, Git
- **Design Skills:** Figma, Adobe Photoshop, Adobe Illustrator
- **Spoken Languages:** Bengali (Native), English (Proficient), Hindi (Proficient)

Leadership & Activities

- **Graphics Head** in Samarth (Education Club Of our College)
- Class Representative and Placement Representative of my Department.

Coursework In college:

Data Structures and Algorithms | Computer Networks | Object-Oriented Programming | Operating Systems | Database Management Systems | Neural Networks | Artificial Intelligence | Machine Learning | Deep Learning | Data Mining | Big Data