NAMRATA NASKAR

ACADEMIC PROFILE

Degree/Certificate	Institution					Percentage/CGPA	Year
M-Tech	Computer Science and Engineering IIT (BHU), Varanasi					7.11	2024
Sem I	**Sem II**	**Sem III**	**Sem IV**	**Sem V**	**Sem VI**	**Sem VII**	**Sem VIII**
7.00	7.23	-	-	-	-	-	-
BE(ECE)	University Institute of Technology, Burdwan					79.60	2021
ISC (XII)	Shaw Public School					94.25	2016
ICSE (X)	Shaw Public School					91.20	2014

SKILLS

- **Area of Interest** : Data Structures & Algorithms, Machine Learning
- **Software & Libraries** : Numpy, Pandas, TensorFlow, NLTK
- **Programming Languages** : C, C++, Basics of Python

INTERNSHIP/TRAINING

Intern, Smartknower   August 2020 - September 2020

- Developed an encryption technique using HTML, CSS, and Flask for client-server communication.
- Seamlessly integrated HTML/CSS for user-friendly design and Flask for backend logic, ensuring efficient encryption processes.
- Contributed to heightened network security by innovatively combining cryptography and web technologies for safeguarding sensitive data during transmission.

PROJECTS

M.Tech Thesis | Long Tail Recommendation System   Jan'22 - Ongoing

Under the Supervision of Prof. Bidyut Kr. Patra

- Conducting an extensive literature review on Long Tail recommendation systems to gain insights into various methodologies and approaches for achieving optimal recommendations in niche markets.
- Exploring and implementing advanced recommendation algorithms to enhance the system's capability to provide accurate and relevant suggestions to users in the Long Tail of the distribution.
- **Exposure**: Surprise, Implicit, TensorFlow.

Enhanced State of Charge (SOC) Estimation for Battery Management   Jan'23 - May'23

- Implemented a novel SOC estimation method, combining time series analysis, feature selection using the Boruta algorithm, and deep learning models to optimize battery management.
- Designed and deployed advanced deep learning architectures, including a hybrid GRU and Bi-directional LSTM model, to significantly enhance the accuracy of SOC predictions, contributing to efficient battery management.
- **Exposure**: TensorFlow, Keras, Scikit-learn

Web Crawling and PageRank Analysis   April'23 - May'23

- Designed and executed a web crawler to collect 1000+ web documents.
- Implemented PageRank algorithm for web page importance assessment, and conducted hub and authority score analysis.
- **Exposure** : Leveraged Python libraries (BeautifulSoup, NetworkX, Scikit-learn, Scrapy) for web scraping, graph analysis, and machine learning.

CERTIFIED COURSES

Python for Data Science, AI & Development | IBM   July'23 - August'23

- Learnt about various data types, string manipulation, data structures, and loops.
- Gained knowledge about file handling and advanced data manipulation using Pandas, NumPy, and Requests libraries.

POSITION OF RESPONSIBILITY

Teaching Assistantship   July 2022 - present

- Supervise practical work advising on skills methods and techniques to assist the transfer of knowledge and provided mentorship to various students regarding course projects
- Participate in the assessment process using a variety of methods and techniques and provide effective, timely, and appropriate feedback to students to support their learning

HONOURS AND ACHIEVEMENTS

Gate Percentile

I have attained 96.1 percentile in GATE Examination 2022 among 77257 participants.

EXTRA-CURRICULAR ACTIVITIES

Music & Art

- Formally trained in classical music, honing skills in technique, interpretation, and musical expression.
- Proficiently trained in drawing and painting, showcasing a keen eye for artistic detail and expression.

T: 8240770387 **E:** nam.naskar@gmail.com **Address:** 12/C, Parui Kancha Road, Kolkata - 700061