Rajkishore Nandi
Portfolio - Portfolio Link
Indian Institute of Technology Madras

EDUCATION

Program	Institution	% / CGPA
MTech in Artificial Intelligence & Machine Learning	Indian Institute of Technology, Madras	8.75
BS in Data Science and Applications	Indian Institute of Technology, Madras	9.0
Class XII	Delhi Public School, Kolkata	78
Class X	St James Convent School	91

Relevant Skills: Languages - Python, Java Script, Java, C, HTML, SQL
Libraries/ Framework - Pytorch, Matplotlib, Numpy, OpenAI Gym, Pandas,Pyspark, ScikitLearn, Langchain, Adk,
Web - HTML, CSS, Flask, FastApi, VueJs
CloudSkills - AWS services, GCP services, MLops

Relevant Courses: MultiArm Bandits, Reinforcement Learning, Deep Learning, Machine Learning Techniques, Machine Learning Practice, AI : Search Methods for Problem Solving, Data Structures and Algorithm, Modern Application Development, Statistics-1, Statistics-2, Machine Learning Foundations, Object Oriented Programming, Computer System Design,Database Management System, Business Analytics, Data Visualisation Design, MLops

ACHIEVEMENTS

- Secured 3rd position in the Data Visualization Design Project among 70 students who participated.
- Ranked among Top 15 in Cricket and Coding Hackathon for IPL matches 2023 conducted by NPTEL where more than 1000 teams participated.
- Secured 20th position in the Kaggle competition of predicting customers behavior in an E-Commerce website out of 769 participants

PROFESSIONAL EXPERIENCE

Intern 1 (Sept 2024 - Ongoing)	**Data Intern , Logitech** • Worked in building an agent that can do automatic data analysis on various Logitech Products extracting data from different community platforms where users post reviews. • Build the pipeline that can fetch the raw data and make it ready for agents to consume for further analysis and serve the end user • Leveraged **MCP** protocol, **LangGraph** architecture and **LangChain** framework for conversation using Open AI Api. • Used **AWS** services and **Pyspark** to automate the full pipeline and deploy the agents.
Intern 2 (Oct 2023 - Jan 2024)	**LLM Intern in a collaborative project of ENCORA Digital and IITM** • Developed a web application which facilitates Coding Education featuring an integrated IDE for question solving. • Leveraged **Django** Framework, **REST Api** architecture and **LangChain** framework for conversation with Open AI Api.
Intern 3 (May 2023 - Aug 2023)	**Research Intern** • Executed a deep learning model to forecast end-term scores for 25,000 students, relying on quiz 1 performance as input. Harnessed the capabilities of neural networks to construct a precise regression model, enabling the anticipation of students' performance trends.

Intern 4 (Feb 2023 - May 2023)	**Teaching Assistant - Statistics** ● Conducted sessions on a daily basis, prepared animated study materials .Took problem solving sessions for academically struggling students.Created additional question sets for stronger grasp of concepts.

PROJECTS

Project 1	**Developed an autonomous agent to do effective betting in cricket** ● Coded AI agents using Bandit and RL Algorithms that can employ effective betting strategies in the game of cricket. ● Given State of the match that is wickets in hand and overs left the Agent can decide what shot to play next using Q Learning. ● Implemented KL-UCB Algorithm to find out the least risk taking shot at every ball. ● The game environment and agents were coded from scratch with numpy.
Project 2	**E-commerce Shoppers Behaviour Understanding - Kaggle** ● Conducted in-depth analysis of customer data through EDA,understanding the purchase behavior of customers seeing their behavior pattern while they visited the website. ● Employed advanced machine learning techniques to train diverse models, achieving a noteworthy 0.716 F1 score in predicting the customers purchase behavior. ● Implemented models like **Logistic Regression**, **Random Forest Classifier**, **SVM** model and **Stacking** classifier using **Scikit learn** library.
Project 3	**Platform Analysis of Big Basket** ● Executed Product analysis for different categories of products along with their reviews and also analyzed the different Brands selling on the platform with Pandas and Google Sheets. ● Identified top-selling products, top performing brands, and assessed promotional impacts through statistical and graphical methods. ● Curated valuable recommendations to enhance overall sales performance of the platform strategies for Top 3 brands on the platform. ● Tools used are **Numpy, Pandas, Google Sheets, Seaborn, Matplotlib, PowerBI**
Project 4	**Bloglite Application - WebApp** ● Personal blog creating website ● Developed the front-end using HTML, CSS, and VueJS to ensure a seamless and visually pleasing user interface for the single-page web application. ● Implemented the Flask web framework for the backend, integrating SQLITE3 as the database to optimize data handling and processing. ● Enhanced performance and scalability by incorporating utilities like Celery and Redis, and automated monthly report delivery through Cron Jobs to users' email for improved user engagement.

POSITIONS OF RESPONSIBILITY

POR 1	● Worked as Cultural core for the Paradox, 23 - the annual fest of IIT M BS degree. ● Responsible for planning and managing all the cultural events and coordinating among participants and cultural event heads.
POR 2	● Worked as Dance event head for Paradox, 22 ● Managed more than 50 participants who participated in the event.
POR 3	● Head of the official Drama Society for the academic year 2022. ● Co - Head of the Dance society for the academic year 2021.