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EDUCATION AND SCHOLASTIC ACHIEVEMENTS

PROGRAM	INSTITUTION	CGPA / %	Completion
B. Tech in Mechanical Engineering	Indian Institute of Technology Madras	8.12/10	2023
XII (State Board – Rajasthan)	Bhartiya Public School, Rajasthan	86.80%	2018
X (State Board – Rajasthan)	Deepak Public School, Jaipur	89%	2016

ACHIEVEMENTS	• Secured an overall rank **second** and district rank **first** in synthesis talent hunt syn-genius 2018 • Achieved an **All-India rank of** 2416(out of 0.2 million candidates) i.e., top 1**%** in **JEE advanced (2019)**

PROFESSIONAL EXPERIENCE

Fego.ai[1] Product and Research Development June'22-July'22	• Responsible for analysis of fintech companies & model building to **help stakeholders** track personal finance • Performed **deep research** on the working business model of various fintech institutions across the world • **Utilized** attributes like Cibil score, cash flow, etc. to develop a robust **rule-based** mathematical model • Detected **recurring & non-recurring transactions, and** billing cycles to help consumers **estimate** their expenses
Dream up India Data Scientist March'22-May'22	• Ideated an **interactive & insightful** Power BI dashboard and an Election winning predictive model • Analyzed exams, attendance data, etc. of **10+ schools** to create an interactive Power BI dashboard model • Extracted the tabular data from **450+ Picture PDFs** with the help of **AWS Textract API** using python • Developed a model by analyzing **trends at the booth level** to predict the winning **chances** of political parties
StuddicTed Python Developer April'21-May'21	• Part of a **fast-paced** startup to solve the problems faced by young students on a day-to-day basis • **Utilized** the prior performance of students to provide **holistic suggestions** on performance improvement • **Collaborated** across domains to create a python application to generate a student analysis report • **Reduced** the report generation time to **30 seconds** from a manual generation time of **more than 30 minutes**

RELEVANT COURSEWORK AND SKILLS

Coursework	• Demystify Deep Learning (CloudyML)* • AI for all -Data Science Course (CloudyML)* • Natural Language Processing (Great Learning) *	• Probability, Statistics, and Stochastic Processes • Data Analytics with Python* • Introduction to SQL (Khan Academy) *
Key Technical Skills	Predictive Analysis, Web Scraping, Data Preprocessing, ANN, NLP, Machine Learning algorithms, Time Series Analysis, Statistics, AWS, Data Visualization, DSA, Problem Solving, DBMS, Operating System basics	
Languages and Tools	C, C++, Python, Microsoft Office, MYSQL, Power BI, Git, Fusion, AUTOCAD, Flask, Postman, SQL	

PERSONAL PROJECTS

News Trend Stock Price Prediction using NLP	• **Analyzed** the **dynamics of the stock market utilizing** the daily news and stock prices in a joint model • Utilized numerous preprocessing techniques like **stemming**, **stop words**, etc. to clean the raw data • Deployed the **Textblob** library under python to calculate the **subjectivity** and p**olarity** of news text • Predicted the price of 61st day by utilizing the close price data of the past 60 days with an **r-square value of 0.632**
English to French Translator using LSTM	• English to French translator to **help travelers** or people who are settling into a new country. • Designed a data cleaning pipeline to clean the raw data with the help of the NLTK library under python • Trained a **five-layer RNN** model with **LSTM** and embedding layer after visually displaying the word cloud • Build a model that converts **English to French and vice versa** with a **blue score** value of 45 percent.
Harvesify	• Developed a machine learning-based model that can give **various insights** related to the **crops** on a farm • **Analyzed** two different datasets of crops and fertilizers to create a **recommendation**-based model • **Utilized** soil parameters to provide recommendations on **crops to grow, fertilizers to use & disease detection** • **Hosted** an **end-to-end** website on **Heroku** with HTML as the front end and backend as a **flask** framework
Personal Finance Analysis using Power BI	• Designed a **customizable** finance dashboard to control the cash flow and plan future expenditures. • Collected 6 months of transactional data from **various resources** like credit cards, debit cards, etc. • Analyzed the data with the help of the Power BI analytics tool for different slabs like **expenses**, **savings**, etc. • Developed a **dashboard** to track income, expense, and saving relative to each other for different time slabs.
Credit Card Risk Analysis	• Developed a model to **help financial institutions** identify the customers who are most likely to do fraud. • Designed a data preprocessing pipeline to **clean** the 12 months data of **American Express** with **47 parameters**. • Compared various ML algorithms on different performance matrices and found ensembled models were much **better** • Hyptertuned the parameters of the Random Forest algorithm to achieve a mean **ROC AUC value of 0.782**

POSITIONS OF RESPONSIBILITIES

Core **FR & Hospitality Team** **SOC[2]**	• Lead a team of **10 individuals** to promote sports at the institute by meeting standards and providing facilities • Conducted **100+ events** throughout the year, including the marathon, Inter-department leagues, etc. • **Planned and supervised** gully cricket tournament over a period of **2 weeks** comprising **64+ teams** • **Commenced** Initiatives like Diet Webinar SAAHAS with a **footfall of 500+ students** in this difficult covid time

CO-CURRICULAR ACTIVITIES

Hackathon	**Built** a collaborative based **recommendation system** for Amazon users as a part of an Amazon Hackathon
Quora Challenge	Analyzed Quora user engagement data with **A/B testing** and discovered the positive change to be significant

EXTRACURRICULAR ACTIVITIES

Microsoft AI Classroom Series	**Participated** in the Microsoft AI classroom series online conducted by the Microsoft Azure team in partnership with the **NASSCOM**, and **future skills prime** which was about Microsoft Azure Machine Learning
Power BI Workshop	**Attended** a six days Business Intelligence Power BI workshop conducted by **Master Business Intelligence**
SPORTS	Part of National Sports Organization **(NSO[3]) Hockey** and **Captain of Hostel Hockey** team at IIT Madras

* - Online courses   1- Ongoing   2- Sports Organizing committee   3- National Sports Organization