Spandan Das

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Education

Degree	Institution	Major	Grade/Percentage
B.E., 2025	Jadavpur University	Computer Science	8.51 (till 6th semester)
12th Standard, 2021	Birla High School, CBSE	Science	97.8%
10th Standard, 2019	Birla High School, CBSE	All Subjects	96.8%

Skills

• Languages: Python, C, Java, C++, R

• Frameworks: React, Node.js, Express.js, Web3.js

• Tools: Git, Docker

• Databases: MySQL, MongoDB

Other: Mathematics, Statistics, Machine Learning, Blockchain

Work Experience

Intern | PricewaterhouseCoopers

June - August 2024

- Developed a **decentralized digital platform** for a large pharmaceutical supply chain management system to accurately track shipments and batches of vital medicines.
- Technologies: Blockchain, Ethereum, Solidity, Kaleido

Projects

Density Estimation Using Normalizing Flow (Ongoing)

Under Prof. Srinjoy Das, University of West Virginia, School of Mathematical and Data Sciences

- Building a multidimensional time-series predictor using Normalizing Flows (MAF) and Copulas (IGC) for efficient predictions, with applications in anomaly detection.
- Technologies: PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, R

Large Scale Energy Farm Output Prediction

- Created 4 different models and then stacked them in an ensemble to form a more robust and accurate model for predicting the power output of a large scale wave energy farm
- Acheived MAPE = 0.014 and R2 score > 0.98 for the final ensemble
- Tech Stack: tensorflow, scikit-learn, numpy and pandas

Sales Prediction

- Created a sales predictor model for 10 Walmart stores in the U.S., removing seasonal effects and considering special events like holidays.
- Achieved **MAPE** < **0.05**, capturing both seasonality and general trend accurately.
- Tech Stack and concepts: Prophet Model, time series prediction, numpy, pandas, scikit-learn

C-like Compiler Analysis Phase

- Implemented the lexer, parser, CFG, and symbol table for a C-like compiler handling loops, operators, enums, structs, and functions.
- Result: Functional lexer, CLR parser, and symbol table with a 472-state LR(1) automaton.
- Languages: C++, C

Achievements

- KVPY Fellow Qualified for SA category, 2020 (Rank 527)
- IOQP (Physics Olympiad) National Level Qualifier, 2021
- GATE 2024 Rank 1291
- JEE Advanced Rank 2801
- **WBJEE** Rank 69

Languages

English, Hindi, Bengali