

Spandan Das

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Education

Degree and Year of Passing	University/Board	Major/Specialization	Percentage/Grade (scale 10)
B.E., 2025	Jadavpur University	Computer Science	8.54 (till 5th semester)
12th Standard, 2021	Birla High School, C.B.S.E.	Science	97.8%
10th Standard, 2019	Birla High School, C.B.S.E.	All	96.8%

Skills

- **Programming Languages:** [e.g., Python, Java, C++]
- **Frameworks:** [e.g., React, Node.js]
- **Tools:** [e.g., Git, Docker]
- **Databases:** [e.g., MySQL, PostgreSQL, MongoDB]
- **Other:** [e.g., Mathematics, Statistics, Machine Learning]

Projects

Density Estimation Using Normalizing Flow (currently working on it)

- Aim : To build a point predictor for multidimensional time series using Normalizing Flows (MAF) and Copulas (IGC) for efficient, fast and accurate predictions. Working under the supervision of Prof. Srinjoy Das of University of West Virginia, school of Mathematical and Data Science.
- Tech stack involved : Pytorch, tensorflow, scikit-learn, pandas, numpy
- Use cases also include anomaly detection.

Sales prediction

- Developed a range sales predictor of 10 walmart stores in WI, TX and CA of USA. Involved removing seasonality of various types like multiplicative seasonality yearwise and daily seasonality. Consideration of special events like holidays. Used prophet model for prediction.
- Result : Accurate ranged predictor of store sales with mape < 0.05. Was able to capture different types of seasonality and general trend of the time series.

Implementation of analysis phase of a simple C -like compiler

- Developed lexer, parser, CFG and symbol table for a simple C-like compiler which included for loops, operators, data structures like enums and structs, functions and pragmas.
- Languages used : C++, C.

- Result : Developed a fully functioning lexer, CLR parser and primitive symbol table for the given C-like language. Final LR1 automaton had 472 states for the built Context Free Grammar.

Achievements

KVPY Fellow Awardee - Qualified for SA category in 2020 (ranked 527)

IOQ 2021 - Qualified for National level in IOQP (Physics Olympiad) in 2021

Gate 2024 rank - 1291 JEE Advanced Rank - 2801 JEE Main Rank - 3018 (99.72 percentile) WBJEE Rank - 69

Languages

English Hindi Bengali