Piyush Jeena

Data Scientist

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Data driven researcher familiar with gathering, cleaning and organizing data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic, and other analytical techniques. Highly organized, motivated and diligent with significant background in Quantitative analysis. To seek and maintain full-time position that offers professional challenges utilizing interpersonal skills, excellent time management and problem-solving skills.

WORK EXPERIENCE

PhD Researcher in Computational Physics
CNRS

10/2019 - 11/2022 *Bordeaux, France*

Achievements/Tasks

- Developed state-of-the-art Markov Chain Monte Carlo simulations in Python from scratch using an MPI-based Parallel Tempering Algorithm to generate quantitative diagrams for Frustrated Systems and achieved > 95% accuracy against experimental results.
- Utilized visualization and analytics tools to analyze and process complex data in the HPC cluster.
- Streamlined research processes to meet deadlines for multiple projects and writing research papers, reports, and summaries regarding Frustrated magnetism.
- Used statistical tools such as Stochastic Simulations, Series Analysis, Time Series Analysis, Stochastic Processes, Combinatorics, and Probability Theory to model systems relevant to Frustrated Magnetism.
- Reduced compilation time.

Researcher
Ludwig Maximilian University of Munich (LMU)

11/2021 - 12/2021 *Munich, Germany*

Achievements/Tasks

- Learnt the basics of the Tensorial-kernel support vector machine, which is an open-source machine learning library, used to construct complex phase diagrams.
- Collaborated with other researchers to identify relevant questions and determine best methods of collection.

PERSONAL PROJECTS

Meal Recommender System

- Scraped data for 35000+ recipes from the website Allrecipes.com using Beautiful Soup.
- Cleaned, prepped and performed exploratory data analysis to gain important insights and generated word embeddings using tf-idf and Word2vec.
- Built a content-based recommendation system using cosine similarity to surface relevant recipes to the user based on their input and built a web-interface for the project using Streamlit.

Analysis on Video Game Data

- Used MySQL to analyse the game critic, user scores and sales data for the top 400 video games released between 1977 and 2020.
- Identified the best selling years and the respective sales.

TECHNICAL SKILLS

Python | NumPy | SciPy | Matplotlib | Seaborn | Pandas | Scikit-learn | PostgreSQL | MySQL | Git | PyTorch | AWS | Airflow | NLTK

GENERAL SKILLS

Data Visualization | Machine Learning | Statistical Modelling | Data Preparation | Quantitative Analysis | Natural Language processing

EDUCATION

PhD in Theoretical and Computational Physics
CNRS

10/2019 - 11/2022 *Bordeaux, France*

MS in Physics
IIT Bombay

07/2017 - 05/2019 *Mumbai, India*

LANGUAGES

English
Full Professional Proficiency

Hindi
Native or Bilingual Proficiency

French
Limited Working Proficiency

INTERESTS

Video Games | Football | Hip Hop Music