KRISHNENDU PAIN

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EDUCATION

Indian Statistical Institute ↗   Dec 2020 – Jun 2022
MS in Applied Statistics & Operations Research (Quality Management Science)   *Percentage - **91.92%***

Ramakrishna Mission Residential College, Narendrapur ↗   Jul 2017 – Jun 2020
B.Sc.(Hons.) in Mathematics (Minor - Computer Science)   ***CGPA** - **8.68/10***

RELEVANT COURSEWORK

- Probability & Statistics
- Machine Learning
- Operations Research
- Linear Algebra
- Multivariate Data Analysis
- Design of Experiments
- Mathematical Optimization
- Numerical Analysis

RESEARCH INTERESTS

- Operations Research (Linear & Non-linear Optimization, Scheduling problem)
- Reinforcement Learning
- Sports Analytics

WORK EXPERIENCE

Aditya Birla Finance Limited   Mar 2022 – Present
Data Science Intern   *Mumbai, India*

- Working with the Retail, Consumer and Micro-Business Analytics Team on an end-to-end Credit Bureau Feature generation project. This features are used to predict and analyze user behaviour, decision regarding loan approval etc.
- Tech-stack used: **Python, Visual Studio Code, Jupyter Notebook**.

Louis Dreyfus Company ↗   Jul 2021 – Sep 2021
Data Science Intern - Research   *Bangalore, India*

- Optimized the Sugar import-export converters for sugar trading by automation, using **Python** and **Selenium** for the Sugar Research Team, henceforth reduced the time for building each converter by **96%**.
- Integrated and standardized databases of sugar domestic price and sugar consumption data and analysed the data using **Python** and **SQL** in **Microsoft Azure Databricks Platform.**

PROJECTS

A Study on Stock Trading Strategy as a Markov Process in The Context of Indian Market

- This is a Research project under Prof. GSR Murthy, SQC & OR Unit, ISI Hyderabad.
- Developed a **Dynamic programming algorithm** for stock trading in Indian market. Analysed the result for different stocks and made a comparison between policies and approaches.

A Study on Probabilistic Word Embedding: Representing Words as Probability Distributions

- This is Master's Dissertation project under Prof. GSR Murthy, SQC & OR Unit, ISI Hyderabad.
- The idea of representing word as probability distributions is comparatively new. Reviewed the corresponding methodologies and provided a simple overview and comparison with available methods.

Restaurant Recommendation system using Machine Learning ↗ | *Python, Jupyter Notebook*

- The idea behind this ML project is to build a recommendation system that recommends users restaurants according to their previous choice of restaurants.
- **Content-based filtering** along with **TF-IDF vectorization** is used here to build the system.

End-to-end Machine Learning Healthcare Project ↗ | *Python, Flask, Heroku*

- The idea behind this end-to-end project is to predict Diabetes, Heart disease and Liver disease using patient's details like age, blood pressure etc.
- **Logistic Regression** is used for Diabetes and **Random Forest Classification** is used for the remaining two.
- Live site

TECHNICAL SKILLS

Languages: Python, C, SQL, R, MATLAB
Libraries/Frameworks: Numpy, Pandas, Matplotlib, Seaborn, scikit-learn, Gurobi, Selenium, BS4, Flask

ACADEMIC ACHIEVEMENTS

- Unofficial **TOEFL Scores** (Exam date 3rd April, 2022): Reading 26/30, Listening 24/30, Speaking 21/30, Writing 26/30.

- Secured **All India Rank 11** in the **Indian Statistical Institute MSQMS Entrance Test, 2020** and awarded with **ISI Scholarship** for graduate study.

- Selected among the top students from all over India for the **Chennai Mathematical Institute M.Sc. Data Science course, 2020**.

- Secured **All India Rank 413** in **Mathematics** in the **Joint Admission Test for Masters - JAM 2020**.

- Awarded with **INSPIRE Scholarship (2017-2020)** by the Department of Science & Technology, Government of India for being within top 1% of Class XII examination in India.

REFERENCE

Dr. GSR Murthy

- Faculty & Senior Technical Officer – Statistical Quality Control and Operations Research Unit, Hyderabad – Indian Statistical Institute
- **Email ID: murthygsr@isihyd.ac.in**

EXTRACURRICULAR

YouTube 🔗
Content Creator

- Building a YouTube channel to help the students for ISI and CMI entrance tests (All India Level Data Science Masters entrance exams) and sharing Data Science related content.

Inter Hostel Drama Competition   Oct 2019
Music Director & Core committee member   *RKMRC, Narendrapur*

- This is the flagship cultural program in my college (RKMRC). It is an original drama competition among four hostels, written and organized by hostel members.
- Contributed to music, script writing and guiding a group of 40 people, leading to win the competition.

National Service Scheme   Jul 2017 - Oct 2018
Student Volunteer   *RKMRC, Narendrapur*

- Worked as a student volunteer in NSS camp in a nearby village.