Parnapalli Sarath Kumar

2rd Year Undergraduate at IIT Kanpur   **linkedIn :** Sarath Kumar   **Email :** psarath22@iitk.ac.in

Statistics and Data Science   **Phone :** +91-9014683567

Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.S. SDS	Indian Institute of Technology, Kanpur	9.23/10
2022	IPE(XII)	Sri Chaitanya Boys Junior College, Vijayawada	98.3%
2020	SSC(X)	A P R School of Excellence, Kodigenahalli	98%

Scholastic Achievements

- Received the Academic Excellence Award for exceptional academic performance in IIT Kanpur (x2).
- Compotent in Competitive Programming with a maximum rating of **1544** on Codeforces. @SKumar
- Qualified for a **Machine Learning Internship** at Madhav Labs, IIT Kanpur, demonstrating proficiency and potential for contributing to projects before withdrawing.
- Secured **All India Rank 1827** in **JEE Mains 2022** amongst more than 9 Lakh candidates.
- Secured **All India Rank 4337** in **JEE Advanced 2022** amongst 1.6 Lakh shortlisted candidates.
- Achieved A* grades, reflecting outstanding performance, in **Fundamentals of Computing - I, Linear Algebra, and Engineering Graphics.**

Key Projects

- **Decoding Boat Lifestyle, MTH208**   *(July'23- Nov'23)*
  Mentor: *Prof. Dootika Vats*
    - Executed a Data Science project on Boat Lifestyle's website using advanced data cleaning and web scraping in R and Python.
    - Demonstrated expertise in data analysis and visualization using R and Python, contributing to well-informed decision-making.
- **Data Analysis and Machine Learning, MTH209**   *(Jan'24- April'24)*
  Mentor: *Prof. Subhajit Dutta*
    - Developed and implemented a comprehensive forecasting model for exchange rates using ARIMA, ARMA, and linear regression techniques.
    - refined methodologies, and presented insights to stakeholders, demonstrating proficiency in Python and statistical analysis.

Technical Skills

- **Programming Languages:** C, C++, Python, R.
- **Tools and Libraries:** Pytorch, TensorFlow, Scikit-learn (sklearn), LATEX, Standard Template Library (STL), Shiny, Quarto, Tidyverse, Rvest, dplyr, Numpy, Pandas.

Positions of Responsibility

- **Academic Mentor, ESC 111&112, Counselling Service - IIT Kanpur**   *(July'23-Present)*
    - Part of a team of 33 students, guiding over 1200 students in programming courses at IIT Kanpur.
    - Helping them with their academics by taking classes before examinations and maintaining a good rapport with them.

Relevant Courses

Fundamentals of Computing - I	Machine Learning Specilization, Coursera
Fundamentals of Computing - II	Introduction to Probability Theory
Data Science Lab - I	Matrix Algebra and Linear Estimation
Introduction to Electronics	Data Science Lab - II (*)
Data Structures and Algorithms (*)	Elementary Stochastic Processes - I (*)
Statistical Computing (*)	Theory of Statistics (*)

(*) ongoing courses

Extra-Curricular Activities

- Successfully completed a rigorous 10-day Naval Camp in August 2017, followed by an examination in 2018, leading to the prestigious attainment of an A-grade NCC certificate.