Saket Kumar

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Academic Qualifications

Year	Degree	Institute	CPI or %
2024 - Present	MSc Economics	Indian Institute of Technology, Kanpur	8.60
2024	BA (Statistics)	Banaras Hindu University	8.01
2021	CBSE (XII)	Jawahar Navodaya Vidyalaya, Samastipur	90.0%
2019	CBSE (X)	Jawahar Navodaya Vidyalaya, Samastipur	96.0%

Virtual Work Experience

- **Accenture North America Data Analytics and Visualization Job Simulation on Forage** (*January 2025*)
  - Completed a simulation focused on advising a hypothetical social media client as a Data Analyst at Accenture.
  - Cleaned, modeled, and analyzed 7 datasets to uncover insights into content trends to inform strategic decisions.
  - Prepared a PowerPoint deck and video presentation to communicate key insights for the client and internal stakeholders.

Key Projects

- **Medical Cost Prediction (Self Project)** (*July 2024*)
  - Performed **data cleaning** and **EDA** on the dataset.
  - Used **Linear Regression**, **Random Forest Regressor**, and **XBoost Regressor** to predict medical insurance costs.
  - Tuned models with **GridSearchCV** and **RandomizedSearchCV** to improve accuracy.
  - Selected the best-performing model after comprehensive training.
  - **github repo link:** medical-cost-prediction
- **Music Data Visualization Application (Group Project)** (*November 2024*)
  - Designed an interactive R Shiny app to analyze and visualize music data, incorporating Spotify metrics.
  - Enabled users to explore artist performance, top tracks, and song features with dynamic plots and customizable options.
  - Demonstrated skills in data manipulation, visualization, and app deployment.
  - **github repo link:** music-data-visualization-application
- **Online vs Offline Education Analysis (Survey Project)** (*Feb 2024 - April 2024*)
  - Collected raw data from students using simple random sampling.
  - Performed data cleaning and visualization using MS Excel.
  - Tested hypotheses using statistical tests like t-test, z-test for proportions, and chi-square test.
  - Concluded that many students prefer online education over traditional methods based on test results.
  - **github repo link:** online-vs-offline-education

Technical Skills

- Python (NumPy, Pandas, Matplotlib, Scikit-learn, etc.)
- R
- MS Excel
- MySQL

Certifications

- Supervised Machine Learning: Regression and Classification by **DeepLearning.AI, Stanford University**
- Applied Data Science Lab by **WorldQuant University**
- Data Visualization with Python Masterclass on **Udemy**
- Business Analytics with Excel: Elementary to Advanced on **Coursera**

Positions of Responsibility

- Served as a **Prefect** in Jawahar Navodaya Vidyalaya, Samastipur (2019-20 session).

Relevant Courses

Data Science Lab-1	Applied Probability and Statistics
Descriptive Statistics and Distribution Theory	Operations Research
Statistical Inference	Sample Surveys and Design of Experiments

Extracurricular Activities

- Served as a cadet in the NCC unit (12 Bihar Bn., Samastipur, Bihar) and obtained the **"A" certificate**.