

Ahammed Ikbal

1st Year Post Graduate Student
Department of Mathematics and Statistics, IIT Kanpur

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2024 - Present	M.Sc. Statistics	Indian Institute of Technology, Kanpur	Ongoing
2020 - 2023	B.Sc. Statistics (Hons)	RKMRC (Autonomous), Narendrapur	9.37/10
2020	WBCHSE(XII)	Birbhum Zilla School, Suri	98.6%
2018	WBBSE(X)	Birbhum Zilla School, Suri	94.42%

Scholastic Achievements

- Secured **AIR 56** in **Joint Admission Test for Masters (JAM), 2024**. among the 3536 candidates all across the country.
- Placed among **Top 1%** (in aggregate marks) of WBCHSE class XII Examinations and recipient of **DST INSPIRE Scholarship**.
- Among **Top 10** in **Higher Secondary Exam (XII), WBCHSE**.

Key Projects

- An investigation of the Relationship between Song Features and Popularity** [\[GitHub\]](#) (Mar'23- May'23)
Mentor: Asst. Prof. Subhadeep Banerjee, Department of Statistics, RKMRC.
 - Developed **JavaScript** code to mine data from **Spotify API**, sanitized data using **MS Excel**.
 - Performed **cluster analysis** to group similar cities using **distance matrix**, **linkage Analysis** and **dendrogram**.
 - Applied **Principal Component Analysis (PCA)** to reduce features.
 - Conducted **logistic regression** to identify key popularity factors.
- Hand Sign to English Letter Detection Using TensorFlow (Self Project)** [\[GitHub\]](#) (Jun'24-Jul'24)
 - Image dataset collected from kaggle (hand-sign-images) [\[Link\]](#)
 - Used Tensorflow to train the model with **Sequential Dense layers**, **ReLu activation** and **Adam Optimizer**.
 - After tuning the model with different combination of layer and neurons selected the optimal model.
- Time Series Analysis and Forecasting of Champagne Sales (Self Project)** [\[GitHub\]](#) (May'24- July'24)
 - Descriptive analysis of time series was done to get a grasp of various components.
 - Analysed different plots and employed several model (**ARIMA, SARIMA, MA**) to identify the best fit.
 - Forecasted** future sales using the best fitted model.
- Portfolio Website iamikbal.com** (Self Project) (Ongoing)
 - Developing a personal website as hobby project to establish presence in web.
 - Using **NextJs/ReactJs** along with **TailwindCSS** for styling, to create a optimised production ready web app.
 - Deployed in **Serverless** architecture.

Technical Skills

- Programming Languages:** Python, R, ECMAScript (Javascript), TypeScript, L^AT_EX, HTML, SQL
- Software and Libraries:** Tensorflow, Git, GitHub, MS Word, MS Excel, MS PowerPoint, NextJs/ReactJs, Docker, VS Code.

Positions of Responsibility

- Core Team Member and IT Supervisor of INFERENCIA, Annual Departmental Academic Fest** (2023)
 - Managed the budget and accounts for event logistics, including lunch arrangements
 - Implemented a QR-based registration system to streamline the process, reducing time and eliminating hassles.
 - Coordinated with various departments to ensure smooth execution of the fest.
- Member of IT Sub-Committee, Vidyarthi Sabha (General Council)** (2021-2022)
 - Managed social media accounts, created event banners, and promoted events through various channels.
 - Provided IT assistance to authorities, ensuring smooth operation and support for all digital needs.

Relevant Courses

* online

Linear and Logistic Regression Statistical Inference Linear and Matrix Algebra Economic Statistics	Time Series Analysis Probability Distributions Statistical Data Analysis using R Multivariate Analysis	Sample Survey ANOVA Statistical Quality Control Machine Learning by [Andrew Ng] *
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Extra-Curricular Activities

- Taught needy students during COVID under RKMRC, Narendrapur. (May,21 - Jun'21)
- Volunteered in National Service Scheme(NSS). (2022)