

# Mohammad Saqib Ansari

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KAUST, Thuwal – 23955, Saudi Arabia

## EDUCATION



- **King Abdullah University of Science and Technology (KAUST)** Aug 2025 – Present  
*PhD in Statistics* Thuwal, Saudi Arabia
  - Advisor: [Professor Paula Moraga](#)
- **Indian Institute of Technology Kanpur** July 2022 - May 2024  
*MS Statistics* Kanpur, India
  - GPA: 8.1/10.0
- **Ewing Christian College** July 2018 - May 2021  
*BSc Statistics and Mathematics* Allahabad, India
  - Grade: 72.22%

## EXPERIENCE

- **ICICI Lombard General Insurance Company**  July 2024 - Present  
*Associate Data Scientist* Mumbai, India
  - Developed predictive models and data-driven solutions to optimize decision-making in insurance processes.
  - Implemented machine learning techniques, improving efficiency and accuracy in customer analytics.
  - Conducted in-depth analysis on insurance data, providing actionable insights for business stakeholders.
  - Presented findings to senior management, contributing to strategic decision-making.
  - Worked on key projects:
    - \* **Premium Negotiation Bot (Ongoing):** Developing a chatbot that helps customers negotiate insurance premiums based on their budget, enhancing affordability and user satisfaction.
    - \* **GA 2W Model:** Built an LGBM-based model to predict call center conversion rates, improving lead targeting and conversion efficiency.
    - \* **Policy Simplification Chatbot:** Designed and deployed a chatbot to assist customers in retrieving policy-related information instantly, reducing human intervention.
    - \* **PhonePe Analysis:** Analyzed insurance data to help stakeholders decide on offering discounts to PhonePe customers.
- **Data Science Freelancer**  October 2022 - July 2024  
*Self-Employed* Remote, India
  - Provided expert guidance in data science and statistics, assisting students and professionals worldwide through platforms like TutorBro, Way2Class, and Chegg.
  - Developed comprehensive learning resources, including video solutions, coding tutorials, and course content, enhancing the understanding of complex statistical and machine learning concepts.
  - Offered one-on-one mentorship and troubleshooting support for data science projects, ensuring optimized model performance and accurate data analysis.
  - Worked on diverse freelance projects involving data analysis, predictive modeling, and statistical research, applying Python, R, and SQL.


## PROFESSIONAL PROJECTS

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- **Policy Simplification: [Conversational Chatbot using Azure OCR and RAG]** Nov 2025 - Mar 2025  
*Tools: Python, Azure OCR, RAG, Prompt Engineering, Azure Function App* 
  - \* Built a conversational chatbot using Azure OCR and RAG technique to simplify policy-related queries with 100% accuracy on basic variables
  - \* Applied prompt engineering to optimize chatbot responses, ensuring accurate and efficient information delivery
  - \* Reduced human interaction by automating query resolution, enhancing operational efficiency
  - \* Developed deployment-ready code and deployed the chatbot using Azure Function App for real-time assistance
- **GA 2W Model: [Optimized call center operations using predictive modeling]** Oct 2024- Jan 2025  
*Tools: Python, LightGBM, XGBoost, Logistic Regression, Data Cleaning, Multicollinearity Check* 
  - \* Developed a GA 2W model using LightGBM, achieving an accuracy of 86% for call center optimization
  - \* Conducted data cleaning and multicollinearity checks to ensure model accuracy and robustness
  - \* Experimented with multiple models including XGBoost, Logistic Regression, and LightGBM for optimal results
  - \* Prepared deployment-ready code to streamline implementation and support call center operations

## ACADEMIC PROJECTS

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- **Spatial Outlier Detection: [Reproduced and validated research on anomaly detection]** Nov 2023 - Dec 2023  
*Tools: R, LaTeX, Statistical Modelling, Spatial Statistics* 
  - \* Implemented mean-shift and variance-weight methodologies for spatial outlier detection
  - \* Derived and applied test statistics to identify multiple outliers, enhancing detection accuracy
  - \* Developed simulation studies and applied models to real-world datasets for validation
  - \* Analyzed diagnostic measures like standardized residuals and leverage to evaluate model performance
- **Predictive Time Series Analysis and Model Comparison** Aug 2023 - Nov 2023  
*Tools: Python, ARIMA, LSTM, Time Series Analysis*
  - \* Conducted data preprocessing including missing value imputation, trend analysis, and seasonal decomposition
  - \* Implemented and compared classical ARIMA models and LSTM networks for time series forecasting
  - \* Evaluated model performance using error metrics such as RMSE and MAPE
  - \* Applied a long strangle trading strategy based on the forecasting results for actionable insights


## SKILLS

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- **Programming Languages:** Python, R, MATLAB, PySpark
- **Web Technologies:** Streamlit, R Shiny, Fast API, web app
- **Data Science & Machine Learning:** Scikit-learn, XGBoost, NumPy, Pandas, Matplotlib, Seaborn
- **Cloud Technologies:** Azure
- **Specialized Area:** Statistics, Data Science, Machine Learning , AI
- **Mathematical & Statistical Tools:** MATLAB, JMP
- **Other Tools & Technologies:** Tableau, PowerBi, RAG, rvest, BeautifulSoup, MS Office, Visual Studio Code
- **Research Skills:** Hypothesis Testing, Statistical Inference, Experimental Design, Data Analysis, Report Writing

## VOLUNTEER EXPERIENCE

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- **English Teacher** May 2023 – Jul 2023  
*Prayas - Indian Institute of Technology, Kanpur* 
  - \* Taught English to marginalized children in and around IIT Kanpur, promoting 'Education for All.'

- \* Contributed to improving literacy and communication skills, fostering a supportive learning environment.
- \* Developed teaching, mentorship, and leadership skills through interactive and engaging educational activities.

## ONLINE CERTIFICATIONS



- LangChain: Application Development Essentials
- ChatGPT Advanced Course
- Introduction to Artificial Intelligence
- Introduction to Prompt Engineering
- Machine Learning with Python: Foundations
- What Is Generative AI?
- Supervised Machine Learning: Regression and Classification (Stanford)
- Introduction to Data Mining
- Python Libraries for Data Science
- Time Series Analysis
- R Programming for Beginners
- Machine Learning
- Statistics and Its Application - Uttar Pradesh Rajarshi Tandon Open University

## ADDITIONAL INFORMATION

**Languages:** English (Advanced), Hindi (Native), Bengali (Proficient), Urdu (Proficient), Marathi (Basic), Arabic (Basic)

**Interests:** Data Science, Statistics, Machine Learning, Psychology

## ACHIEVEMENTS

### Key Achievements:

- Received **KAUST Fellowship** in 2025 to pursue a fully funded PhD in Statistics at King Abdullah University of Science and Technology.
- Secured **All India Rank 830** among **57,054 candidates** in **GATE Data Science and Artificial Intelligence 2025**, a national-level graduate entrance exam for engineering and science in India.
- Secured **All India Rank 51** among **1,694 candidates** in **GATE Statistics 2024**, a national-level graduate entrance exam for engineering and science in India.
- Secured **All India Rank 154** among **2,912 candidates** in **IIT JAM Statistics 2022**, a competitive entrance exam for admission to postgraduate programs in science and technology at premier institutes in India.