

Saksham Joshi

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Professional Summary

A creative and analytical-minded individual with a critical emphasis on areas relating to Research and Development backed by hands-on experience as an intern in Data Science and Research profiles. I am motivated to utilise the skills gained for personal growth and the betterment of the organisation.

Education

The University of Edinburgh

Sep 2022 – August 2023

MSc Statistics with Data Science

Grade: Merit

Modules: Bayesian Theory, Generalised Regression Models, Bayesian Data Analysis, Text-Technologies for Data Science, Statistical Programming, Machine Learning in Python, Fundamentals of Optimization, Biomedical Data Science, Incomplete Data Analysis, Statistical Research Skills.

Sri Venkateswara College, University of Delhi, New Delhi

July 2019 – June 2022

BSc(H) Statistics

9.243/10

Modules: Calculus, Linear Algebra, Statistical Inference, Financial Statistics, Biostatistics, Design of Experiments, Sampling Distributions, Survey Sampling, Stochastic Processes and Queuing Theory, Time Series, Statistical Computing using C++

Work Experience

SkyQuest Technology, Ahmedabad

Data Science Intern

June 2021 - September 2021

- Developed a **local search bar** using the **Whoosh framework**, allowing users to search for transcripts related to a specific topic easily and demonstrating proficiency in data management and retrieval.
- Worked on various **natural language processing (NLP)** challenges, including **sentiment analysis**, **text summarisation**, **topic modelling**, and more, showcasing advanced **analytical skills** and deep knowledge of NLP techniques.

Sri Venkateswara College, New Delhi

Research Intern

June 2020 - August 2020

- Conducted research in collaboration with Dr. Lalita Josyula and Dr. Nandita Narayansamy.
- The research focused on evaluating the pulmonary health of construction workers who had not been provided with masks at their worksites.
- Utilised **advanced statistical techniques**, including **data analysis**, **hypothesis testing**, and evaluation of the **odds ratio**, to analyse the data and draw meaningful conclusions.
- Through this research, demonstrated a strong understanding of epidemiological principles and an ability to apply **advanced statistical methods** to real-world health problems.

Sri Venkateswara College, New Delhi

Research Intern

July 2021 - August 2021

- Conducted **research** under the guidance of Mr Akash Varshney and Dr Dipika, focusing on different techniques for **time-series forecasting**.
- Developed an **advanced forecasting model** using **RNN** and **LSTM** techniques.
- The model achieved **strong performance**, with a **root mean square error of 135.73** and a **mean absolute scale error of 1.097**.

ASDA Stores Ltd.

Cleaning Colleague

April 2023 – June 2023

- Maintained cleanliness and hygiene standards throughout the store, including floors, shelves, and restrooms.
- Operated cleaning equipment and followed safety guidelines.
- Collaborated with team members to **meet deadlines efficiently**.
- Received **positive feedback** for **attention to detail** and high cleanliness standards.

Mr. Basrai's World Cuisines

Waiter

September 2023 – Present

- Provided prompt, courteous service, and managed customer reviews efficiently.
- Ensured a clean, organised dining area with meticulous table setup.
- Managed drink orders with precision and collaborated seamlessly with kitchen staff.

Academic Projects

New York City Taxi Data Analysis

- Collaborated with a **group of three individuals** to conduct a comprehensive data analysis of New York City taxi data.
- Analysed **taxi data** for the summers of 2019, 2020, 2021, and 2022 across various city boroughs.
- Determined which borough generated the highest taxi traffic based on the data analysis.
- Utilised various **visualisation techniques**, including **heat maps** and **Sankey plots**, to effectively present the findings.
- The data analysis and resulting visualisations provided **valuable insights** into taxi traffic patterns in New York City, highlighting critical **areas of interest** for further **investigation and potential improvement**.

Recipe Search Engine

- Collaborated with a team of six to develop a **recipe search engine**.
- Implemented a **user-friendly interface** where users can input a list of ingredients to search for recipes.
- Utilised various **indexing and information retrieval techniques**, including **positional inverted index** and **ranked IR (TF-IDF)**, to effectively organise and retrieve relevant recipes based on the user's input.
- Employed **DOM** and **React.js** to create an intuitive and visually appealing **front end** for the **search engine**.
- The result is a **powerful and efficient search tool** that provides users with a **comprehensive list** of all possible **recipes** that can be made with their specified **ingredients**.

Academic Achievements and Awards

- Won **first prize** in the **Wall Magazine Competition** held by the Department of Statistics at Sri Venkateswara College.
- Achieved **Academic Rank 3** in the Department of Statistics at Sri Venkateswara College during the academic year 2019-2020.
- Received the **Certificate of Academic Excellence** for scoring 95.8% in the class XII board exams.
- Awarded the **Scholar Badge** for securing a **CGPA of 10.0** in **Class X** and **9.6** in **Class VII**.
- Secured **School Rank 17**, **City Rank 136**, **State Rank 185**, and **International Rank 245** in the **National Science Olympiad**.

Certifications

- Completed a comprehensive course on **Data Analysis using Pandas** from Udemy, demonstrating proficiency in using this powerful **Python** library for data manipulation and analysis.
- Completed a rigorous Classroom Course in **Machine Learning and Data Science using Python** at Coding Blocks, gaining in-depth knowledge of key concepts, **algorithms**, and tools used in these fields.
- Completed a comprehensive Data Science and Machine Learning course **using Python and R** from Udemy, gaining a solid understanding of the fundamental principles, techniques, and tools used in these rapidly growing fields.

Skills: Machine Learning, Deep Learning, Data Analytics, Statistical Learning, Object Oriented Programming

Languages: Python, R, HTML, CSS, React.js, JavaScript, NumPy, Scikit Learn, Matplotlib, Pandas, C++

Tools: PowerBI, Tableau, SPSS, MySQL, MS Office, ChatGPT

Hobbies

Football, Badminton, Video Games, Anime, Manga