

# SWASTIK DE

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## Profile

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Data Scientist with 3+ years of experience building end-to-end analytics and forecasting solutions across retail, agriculture, and life sciences. Strong expertise in time series forecasting, statistical modeling, machine learning, and data engineering using Python, SQL, and cloud platforms. Experienced in translating business problems into scalable data products and decision-support dashboards.

## Experience

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### Nihilent

Jan 2025 – Present

*Data Scientist- II*

*kolkata, India*

- Built and productionized a hybrid product recommendation system using collaborative filtering and clustering, contributing 10% of monthly secondary sales by enabling data-driven cross-sell and upsell recommendations for 55K dealers.
- Developed a product recommendation system using collaborative filtering and content-based filtering, and enhanced recommendation robustness by integrating Random Forest-based models to improve relevance and stability of recommendations.
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### Trinity Life Sciences

Jan 2024 – Dec 2024

*Associate Consultant-RWE Data Science*

*Gurgaon, India*

- Built a Geocoding API-based fuzzy matching algorithm to optimize address data processing, reducing manual effort by 90%, and automated statistical testing workflows, cutting analysis time and effort by 80%.
- Executed advanced analytics and statistical modeling across HCP targeting and Segmentation, Epidemiology projections, HCRU, Line of Therapy (LOT), Market landscape, and patient flow analyses. Delivered statistical manuscript using ordinal logistic regression, chi-square tests, ANOVA, and survival models to address key business questions.

### Wysa

June 2022 – Dec 2024

*Junior Data Analyst-Data Science*

*Bangalore, India*

- Developed engagement, retention, and efficacy analyses for B2C and B2B clients using survival analysis, Cox proportional-hazards models, Kaplan-Meier estimators, time-trend analysis, and a range of parametric and non-parametric statistical tests to assess user behavior and clinical relevance.
- Supported an Employee Mental Health research initiative, contributing to a World Economic Forum-published paper, by evaluating the efficacy and usability of an AI mental health chatbot using NLP-based emotion word analysis and N-gram language models.

## Relevant Course Work & Technical Skills

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### Course Work:

**Languages:** Python, R-Programming, Tableau, SQL, MongoDB, Excel, AWS-Quicksight, Latex, PowerBI

**Developer Tools:** VS Code, AWS, Google Cloud Platform, Snowflake, S3, Sagemaker AI, Github, Docker

## Education

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### INDIAN STATISTICAL INSTITUTE

Sep. 2021 – May 2022

*PG Diploma in Statistical Methods and Analytics*

*Kolkata, India*

### Visva Bharati Central University

Sep. 2021 – May 2022

*M.Sc Statistics*

*Santiniketan, India*

## Projects

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**Gym Reservation Bot** |  [Github Link](#) | *Python, Selenium, Google Cloud Console*

January 2021

- Developed an automatic bot using Python and Google Cloud Console to register myself for a timeslot at my school gym.
- Implemented Selenium to create an instance of Chrome in order to interact with the correct elements of the web page.
- Created a Linux virtual machine to run on Google Cloud so that the program is able to run everyday from the cloud.
- Used Cron to schedule the program to execute automatically at 11 AM every morning so a reservation is made for me.