

Akanksha Kailas Wagh

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EDUCATION

Master of Science in Data Science

Stevens Institute of Technology, NJ, USA

Coursework: Optimization for Data Science, Applied ML, Time Series Analysis, Deep Learning, Statistical Methods, Generative AI for BIA.

Expected May 2025

GPA: 3.5/4.0

Bachelor of Technology in Information Technology

Pune University, India | **Outstanding Student Award**

August 2019 - June 2023

GPA: 9.61/10

WORK EXPERIENCE

Data Analyst Intern - Marketing | Compass Group, USA

February 2024 – May 2025

- Implemented **real-time Power BI dashboards** which analyzed social media sentiment, engagement, and campaign performance, influence to identify most resonant content and improving content strategy, boosting overall **social shares by 20%**.
- Leveraged **NLP** to analyze customer feedback sentiment, leading to a **15% increase** in retention-focused marketing strategies.
- Performed **A/B testing** to evaluate digital campaigns and promotional strategies, leading to a **15% increase in student engagement**.
- Used **SQL for data manipulation of CRM and marketing automation data** to **track KPIs and uncover insights** into lead generation and conversion patterns, enabling the team to fine-tune campaign targeting and improve data manipulation processes.

Machine Learning Intern | Stevens Institute of Technology, USA

May 2024 – August 2024

- Conceptualized and implemented an **AI chatbot using GPT-4 and LangChain** for the university IT support desk; the chatbot delivered context-aware support, reducing **support tickets by 20% per month**.
- Automated context switching** to enhance the chatbot's effectiveness in **handling complex queries**, leading to the recognition as the 'Most Helpful AI Assistant' by the university's IT department.
- Created automated dashboards for **real-time performance monitoring** to analyze chatbot interactions, tracking key metrics like **response time, user retention, accuracy, escalation rate, and sentiment analysis**, driving insights to optimize performance.

Data Engineer Intern | Tata Motors Limited, India

January 2023 - June 2023

- Engineered data pipeline using Python (**Pandas, PySpark**) for data analysis to consolidate user engagement metrics into a **PostgreSQL database**, facilitating a **40% faster generation of real-time analytics** reports.
- Built a Django-based backend with **Django REST Framework**, exposing data via a REST API for **Power BI** integration.
- Designed and deployed **interactive dashboards** in **Power BI** to analyze **user behavior trends**, optimizing **feature adoption** and enhancing **operational efficiency**.

RELEVANT PROJECTS

Grader Bot [\[GitHub\]](#)

- Led a team of 4 to develop a GenAI grading bot using GPT-4o and Langchain's agentic framework to automate assignment evaluations, reducing teacher grading time by 40% and decreasing burnout among educators.
- Constructed a modular Python codebase integrating OCR and a Streamlit interface for 'Grader Bot', cutting assignment grading time for teachers by 60%, based on testing with 10 teachers.

Economic Policy Optimization [\[GitHub\]](#)

- Evaluated the impact of economic policies on consumer behavior by interpreting Consumer Price Index trends; presented a comprehensive report that guided strategic decisions, leading to a 15% increase in policy effectiveness.
- Employed statistical and analytical models, applying two hypothesis tests—T-test and Chi-square test—to predict economic outcomes.

Self-Generated Soccer Highlights | Published in IEEE [\[Paper Link\]](#)

- Executed ML model for soccer match summarization using an Inflated 3D CNN for action recognition and motion detection.
- Analyzed Soccer Net dataset with OpenCV for data augmentation, identifying and classifying 3 key events: goals, substitutes, and penalties, improving event detection accuracy by 25% and attained 95% accuracy in creating concise video clips.

SKILLS

Data Science: AI/ML, GenAI, LLM, NLP, MLOps, Regression Analysis, Statistical Modeling, Predictive Analytics, Time Series Analysis, A/B Testing.

Programming Languages & Frameworks: Python, R, SQL, C++, Java, Scala, MATLAB, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, Django.

Data Visualization & Business Intelligence: Power BI, Tableau, Qlik, Data Visualization, Interactive Dashboards, Data Storytelling.

Cloud & Database Technologies: Azure, AWS, GCP, MongoDB, Oracle, MySQL, PostgreSQL, NoSQL, Data Warehouse, ETL, Data Mining.