Ankit Rajesh Sawant

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EDUCATION

University Of Illinois at Urbana-Champaign | Masters of Science in Information Management **GPA :4.0/4.0** **Illinois, USA**
Courses: Data, Stats & Info, Data Warehousing & Business Intelligence Aug 2024 - May 2026
Dwarkadas J. Sanghvi College of Engineering | Bachelors in Electronics & Telecommunication **GPA :3.74/4.0** **Mumbai, India**
Courses: Big Data Analytics, Neural Network and Fuzzy Logic, Database Management System July 2020 - May 2024

SKILLS

- **Programming Languages:** Python, R, SQL, C++, Java.
- **Data Analytics & Visualization:** Power BI, Tableau, Excel, Pandas, Numpy, Matplotlib, Seaborn.
- **Databases & Big Data Tools:** MySQL, PostgreSQL, MongoDB, Azure, AWS, Hadoop, Apache Spark, Kafka
- **Machine Learning & Statistics:** Scikit-Learn, TensorFlow, Regression Models, Time Series Analysis
- **Soft Skills:** Teamwork, Communication Skills, Problem-Solving, Time Management, Data-Driven Decision Making

WORK EXPERIENCE

University of Illinois at Urbana-Champaign **Champaign, USA**
Guided Research Assistant Jan 2025 -April 2025
- Developing custom **LLM-based agents** to automate data science workflows, including research pipeline design and code generation
- Assessed LLM models' potential for replacing traditional data analysis tools like scikit-learn and **PyTorch**, evaluating efficiency and accuracy**.**
- Conducted hands-on experiments with LLM agents to improve their performance for predictive analytics and business intelligence tasks.
- Integrated LLM-based automation with SQL databases and cloud platforms (**Azure, AWS**) to enhance scalability and streamline large-scale data processing.

Bharaj Machineries Pvt. Ltd. **Mumbai, India**
Data Analyst Intern March 2023-May 2023
- Cleaned and processed over 10,000 data entries from multiple sources using Python(Numpy and Pandas) and SQL, improving data accuracy and ensuring seamless data integration.
- Conducted exploratory data analysis, identifying key trends and insights that led to a 10% improvement in operational efficiency.
- Designed and optimized **SQL** queries to extract, transform, and aggregate large datasets, improving report generation.
- Created interactive **Power BI** dashboards for stakeholders to visualize key metrics and make data-driven decisions.

PROJECTS

Netflix Content Analysis
- Collected and processed Netflix's public dataset using **SQL** to analyse content availability across different countries, genres, and time periods. Built visual dashboards in **Tableau** to identify trends in movie and TV show production.
- Provided strategic insights into Netflix's content strategy, highlighting content gaps and regional preferences to optimize user engagement and content acquisition strategies

Uber ETL Pipeline- Data Engineering Project
- Built an end-to-end ETL pipeline to extract, transform, and load Uber ride data using **Apache Spark**, **Airflow**, and **PostgreSQL**, ensuring efficient data processing.
- Automated data ingestion and transformation, enabling real-time analytics and visualization of ride trends, peak demand hours, and fare estimations.

Myntra Fashion Insights
- Scraped and analysed Myntra's e-commerce dataset using Python (**Pandas, NumPy**) to examine fashion trends, price distribution, and customer ratings. Used **Seaborn** and **Matplotlib** for visualization.
- Uncovered key insights into consumer behaviour, including popular product categories, pricing strategies, and seasonal trends, helping businesses optimize inventory management and promotional campaigns.

RESEARCH PUBLICATIONS

- Sawant, A. R., Sivramkrishnan, Y., Ganatra, H. and Kadam, A. A. (2023) **"Smart Crop – Precision Agriculture using Machine Learning"**, International Journal of Research in Engineering, Science and Management, 6(10), pp. 13–17**.**Paper-Link
- **Corn Leaves Disease Detection Using Convolutional Neural Networks [CNN]** || Hemish Ganatra, Ankit R. Sawant, Yash Sivramkrishnan, Ameya A. Kadam with DOI: 10.55041/IJSREM26275**.** Paper-Link
- Published a research paper on the topic **"Automatic Solar Panel"** in the DJ Strike Techno Journal.

ACHIEVEMENTS

- Registered a **design patent** with the title "**Scarecrow Device**" with the application number 399384-001.Patent-Link
- **Silver medallist** in the **Pattern Recognition and Application** Course (NPTEL_IIT_KGP).