

UTKARSH DABHOLKAR

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SUMMARY

Innovative and results-driven Data Scientist with expertise in machine learning, artificial intelligence, and data analytics. Skilled at building and deploying scalable AI solutions, optimizing large-scale data pipelines, and delivering actionable insights that drive business value. Proficient in SQL, Python, and advanced data visualization tools (Tableau, Power BI, Grafana), with a proven ability to translate complex findings for non-technical stakeholders. Committed to producing well-documented, reusable analytics solutions and collaborating cross-functionally to solve technical challenges at scale.

WORK EXPERIENCE

Data Analyst Co-op | Visteon

May 2024 - Present

- Led the development of data-driven **Power BI dashboards**, consolidating and visualizing big data from **35 Jenkins** servers and over **300,000 jobs**, enabling real-time analytics and informed decision-making across departments
- Reduced server costs by **\$110,000 monthly** by eliminating **22,000 hours** of aborted jobs through targeted efficiency improvements
- Partnered with **cross-functional** teams to transform **complex server data** into insights, Enabling **data-driven decisions**
- Migrated **3 dashboards** from **QlikView** to **Power BI**, enhancing data models and visualizations to improve business intelligence
- Integrated **Microsoft Copilot Studio** to develop an embedded **copilot** on the DevOps website, streamlining workflows, reducing **manual tasks** by **50%**, and increasing overall efficiency by **25%**
- Skills:** Power BI, SQL, Python, workflow automation, metrics definition, communication, ETL, Data Modeling, Dashboard Design

Interim Instructor, Foundations of Data Science | Rochester Institute Of Technology

Aug 2023 - Present

- Taught **40 students** comprehensive data science topics from **EDA to Machine Learning** during **Fall '24**, delivering lectures and interactive sessions using real-world datasets and tools like **Python, Pandas, scikit-learn** to develop practical skills.
- Conducted over **70 interactive lab** sessions and mentored **100+ students** in **machine learning, data analytics, and AWS applications**, reinforcing theoretical concepts with hands-on experience and facilitating successful course projects
- Skills:** Statistical Inference, Machine Learning, Predictive Modeling, Data Visualization, Scikit-learn, Pandas, Curriculum Development, Technical Mentorship, AWS

Data Science Summer Intern | Verzeo

Apr 2018 – Jul 2018

- Delivered **actionable insights** from complex datasets using **Python and Tableau**, enhancing data-driven decision-making effectiveness by **20%**
- Delivered interactive data reports and dashboards, providing real-time analytics for business leadership.
- Skills:** Data Analysis, Business Intelligence, SQL, Data Cleaning, KPI Development, Stakeholder Communication

PROJECTS

Agentic Automation with CrewAI and Ollama

- Engineered modular **AI agent** system with **CrewAI, Gemma2 and Ollama**, boosting contextual understanding by **60%**
- Implemented custom AI agents using **vector databases** and **local LLMs**, reducing API latency by **70%** while maintaining data privacy

Expansive Insights: Analyzing Developer-ChatGPT Interactions

- Developed insights from **107,000** developer interactions, providing data-driven guidance for optimizing **AI-driven tools**
- Discovered **16 single-turn** and **8 multi-turn** interaction types, illuminating GenAI's developer productivity impact
- Architected **robust ETL pipelines** to convert complex data into high-quality datasets, removing non-English prompts and null values, thereby significantly improving data accuracy

Visualized the Residents of Engagement Ohio

- Developed an **interactive dashboard** to explore the demographics and daily routines of **1000 residents** using **Plotly Dash**
- Showcased population movement patterns using **map visualization and time-based animation**, providing valuable insights into daily routines and behavior

EngageWatch: Real-Time Analytics Dashboards

- Engineered **Grafana** dashboards using **Python** scripts, reducing manual reporting efforts by **40%** and enabling faster data-driven decisions
- Streamlined data ingestion with **Airflow** and **SQL**, boosting data accuracy and establishing a robust, automated pipeline

SKILLS

Programming: Python, Java, R, HTML, C, Solidity

Databases: MySQL, MongoDB, Neo4j, SQL, HBase, Vector Databases

Data Visualization: Matplotlib, Seaborn, Tableau, Power BI, Grafana, Dash, Plotly, MS PowerPoint, Shiny, ggplot2

Data Science & Analytics Frameworks: TensorFlow, PyTorch, Sklearn, PyCaret, Spark, Pandas, NumPy, MsExcel, Beautiful-soup

Cloud technologies: AWS, Azure, Snowflake, Databricks, Docker, Kubernetes

Big Data Technologies: Spark, Hadoop, Dbt

AI tools: OpenAI, Hugging Face, Crewai, Ollama, Langchain

EDUCATION

Master of Science in Data Science

Aug 2022 - Dec 2024

Rochester Institute of Technology, Rochester, NY

GPA: 3.8/4

Relevant Coursework: Foundations of Data Science and Analytics, Applied Statistics, Database Design and Implementation, Visual Analytics, Software Engineering For Data Science, NLP, NoSQL

Bachelor of Technology in Computer Science and Engineering

Aug 2017 - May 2021

Manipal University Jaipur

GPA: 7.0/10.0