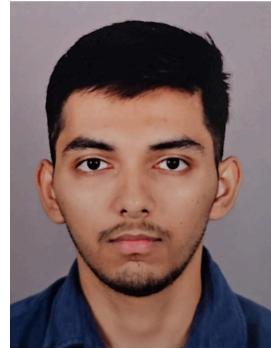


# Viraj Suresh Dalsania

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## ABOUT ME

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Computer Science Master's student at Technische Universität Dresden with a focus on Data Science and AI/ML applications. Passionate about exploring emerging AI technologies, conducting analytical research, and developing innovative solutions for complex data problems.

## EDUCATION AND TRAINING

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<b>Master of Science (Computer Science),</b> <i>Technische Universität Dresden – TU Dresden</i>	10/2025 – Present Dresden, Germany
<b>Bachelor of Technology (Information and Communication Technology),</b> <i>Pandit Deendayal Energy University (PDEU), Gandhinagar</i>	09/2021 – 05/2025 Gandhinagar, India
<ul style="list-style-type: none"><li>- Final Grade: 9.69/10 (<math>\approx</math> 1.1 in German grading system)</li><li>- Thesis: Implementation of a LightGBM-based Long-Short Trading Strategy for Indian Stocks</li></ul>	

## PROJECTS

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<b>Implementation of a LightGBM based Long-Short Trading Strategy for Indian Stocks</b>	01/01/2025 – 20/05/2025
Designed and implemented a complete machine learning pipeline for a long-short trading strategy on Indian equities. This involved automated data acquisition, extensive feature engineering, and the development of predictive models using gradient boosting techniques. The system included robust hyperparameter optimization, time-series backtesting, and live implementation to validate practical performance and signal generation capabilities.	
<b>Analysing the Impact of Russia-Ukraine War on Oil Prices using NLP and Machine Learning Techniques</b>	09/2024 – 12/2024
Developed a predictive analysis model to examine the impact of news sentiment on oil prices during geopolitical tensions. Collected and integrated news data with historical Brent oil prices, then performed sentiment analysis to extract geopolitical sentiment scores. Built and trained an LSTM model for time-series forecasting, achieving high accuracy and identifying sentiment-price correlations.	
<b>Employee Management System</b>	05/2024 – 07/2024
Built a full-stack web application for employee management with a React.js and Redux Toolkit frontend for seamless state management. Developed a Node.js and Express.js backend and integrated MySQL for secure data storage. Implemented JWT based authentication and enhanced UI/UX, ensuring a modern and user-friendly interface.	

## WORK EXPERIENCE

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### Full Stack Web Developer (Intern), IIH Global

- Practiced frontend and backend development with the help of various mini projects.
- Developed an Employee Management system from scratch using React.js, redux toolkit, MySQL, Express.js and Node.js.
- Connected the system with database for real time operations on data and added security features like password encryption and user authorization.

27/05/2024 –

07/07/2024

Ahmedabad, India

## SKILLS

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### Technical Skills

**Programming Languages:** Python, C++, JavaScript, SQL

**Machine Learning & AI:** Machine Learning, Deep Learning, NLP, Large Language Models (LLMs), Prompt Engineering, Fundamentals of AI

**Libraries & Frameworks:** NumPy, Pandas, Scikit-learn, SciPy, TensorFlow, PyTorch

**Data Science & Analytics:** Data Analysis, Data Visualization, Power BI, Microsoft Excel

**Data Engineering & Databases:** SQL, NoSQL (MongoDB), ETL Pipelines, Data Modeling

**Web Development:** HTML, CSS, JavaScript, React.js, Node.js, Express.js, REST API Design

**Cloud & DevOps:** AWS (Amazon Web Services), Git, GitHub, CI/CD

**Other Tools:** Microsoft Office Suite (Word, PowerPoint, Excel)

### Soft Skills

- Good Communication and Writing Skills
- Problem analysis & Problem Solving
- Teamwork & collaboration
- Adaptability

## LANGUAGE SKILLS

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### English

C1

### German

B1 (Learning B2)

## CERTIFICATION

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- Databases and SQL for Data Science with Python - IBM (Coursera)
- Tools for Data Science - IBM (Coursera)
- Privacy and security in online social media (NPTEL)
- Python for Data Science, AI & Development - IBM (Coursera)
- Intern Web Developer (Summer Internship)
- HTML, CSS, and JavaScript for Web Developers — Johns Hopkins University (Coursera)
- Data Science Methodology - IBM (Coursera)
- Ultimate AWS Certified Cloud Practitioner CLF-C02 (Udemy)
- SQL and Relational Databases 101 (IBM)