

# ABHISHEK MALAVIYA

MSc in Computing (AI), Dublin City University

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[LeetCode](#) [HackerRank](#)

## Technical Skills

**Languages:** Python, HTML, CSS, JavaScript, SQL (Basic), R.

**Tools & Platforms:** VS Code, Google Colab, Oracle SQL, Apache Studio, Java Opera Studio, Jupyter Notebook, MS Office Suite (PowerPoint, Excel, Word, Outlook)..

**AI/ML & Deep Learning:** ANN, CNN, RNN, Adam Scheduler, ReLU Activation Function, StandardScaler, EarlyStopper, Reduce LR on Plateau.

**Frameworks & Libraries:** Bootstrap, Tailwind CSS, NumPy, Matplotlib, Pandas, NLTK, spaCy, Scikit-learn, PyTorch, P5.js, Three.js.

**Web Development:** React JS, Node.js, REST API, JSON.

**Data Analysis & Visualization:** Power BI, MS Excel, Matplotlib, Pandas.

**Data Structures & Algorithms:** Currently learning and practicing foundational and advanced concepts in Python.

## Relevant Coursework

- Data Structures and Algorithms
- Web Development
- Artificial Intelligence
- Deep Learning
- Web Design
- Machine Learning
- Frontend Development

## Projects

**Stock Market Volatility & Sector Dynamics** | *Python, PowerBI, Time-Series Analysis* | [View Project](#) **November 2024**

- Conducted time-series analysis on historical stock market data using Python to identify volatile periods and sectoral dynamics over decades.
- Analyzed sector-specific trends, leveraging Pandas and Matplotlib for visualization.
- Developed insights into market behavior for financial analysts and investors, using advanced statistical techniques.
- Delivered interactive data visualizations, utilizing Power BI and Jupyter Notebook.

**AI - Driven Options Trading Bot** | *Python, API, YFinance* | [View Project](#) **May 2024**

- Developed an automatic trading bot using Python, AI/ML and Deep Learning Algorithms to automate trade execution.
- Implemented deep learning models (ANN & RNN [LSTM] and algorithms like MACD and Bollinger Bands to generate signals and increase prediction accuracy of the bot.
- Focused on Buying and Selling Call/Put options contracts based on the predictions.
- Establishing a connection to a broker using its own API to automate trade order execution.
- Implemented various features like Adam Scheduler, Relu Activation Function, StandardScaler, EarlyStopper and Reduce LR on Plateau for more accurate results

**Rick and Morty Wiki** | *React JS, Node JS, REST API, CSS, HTML* | [View Project](#) **June 2023**

- Developed a **Rick and Morty Wiki** with filtering, pagination, and dynamic navigation for a user-friendly experience.
- Created dynamic pages for each character with detailed information.
- Optimized the web page for seamless mobile usability.

**SAKEC Alumni Management System** | *PHP, MySQL, Apache Server, HTML* | [View Project](#) **September 2022**

- Developed a user-friendly and responsive Alumni System with login for Admin and Alumni, including a Sign Up page for new users.
- Implemented alumni data storage and management on an Apache server, accessible via the Admin page.
- Enabled alumni to search and view information of other registered alumni while allowing Admin to manage the database.

## Education

**Dublin City University, Ireland**

*MSc in Artificial Intelligence (On Going)*

**Sept 2024 - June 2025**

*Dublin, Ireland*

**University of Mumbai**

*BE in Computer Engineering (CGPA: 7.95)*

**July 2020 - May 2024**

*Mumbai, India*

## Leadership / Extracurricular

**Co-Head at SCCC**

*Co-Founder*

**Winter 2022 – Spring 2024**

*SAKEC Content Creators Club*

- Organized and Co-Founded a student-oriented committee.
- Managed executive board of members and ran weekly meetings to oversee progress in essential parts towards the goal.
- The committee's goal is to develop a student-friendly social media platform that highlights major college events such as Pratistha, as well as traditional festivals celebrated within the college community.