

# Advik Vijay

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## Education

### Vellore Institute of Technology

Bachelor of Technology in Electrical and Electronics Engineering, CGPA: 8.98

Vellore, India

September 2022 – Present

## Experience

### YBI Foundation

Data Science and AI/ML Intern

Virtual

July 2024 – December 2024

- Built AI/ML models for predictive analytics and real-time automation, improving model accuracy by 15%.
- Assisted in the development of a recommendation system to enhance user experience.
- Conducted data analysis to identify trends, optimize models, and improve data-driven decision-making processes.

### Technoloader

Web Developer

Jaipur, Rajasthan

June 2024 – July 2024

- Contributed to the creation of an AI bot aimed at reducing workforce needs by 20%.
- Collaborated with senior developers to integrate advanced Python-based features.
- Acquired new AI technologies, including advanced Python, through hands-on projects and coursework.

### NullClass

Data Engineer

Virtual

January 2024 – March 2024

- Deployed machine learning models for predictive analytics, achieving 98.97% accuracy.
- Analyzed large datasets, uncovering actionable insights, and improving preprocessing techniques.
- Collaborated with a team to improve data preprocessing techniques.

### Mentorless

ML Engineer

Virtual

January 2024 – February 2024

- Implemented predictive analytics models to streamline demand forecasting, reducing inventory costs by 12%.
- Developed a customer segmentation model using unsupervised learning.

## Projects

### Emotion Detection Project

March 2024 – May 2024

- Designed a machine learning model to detect emotions from facial expressions with 95% accuracy.
- Utilized Python and various ML libraries to train and test the model.
- Achieved a high accuracy rate and deployed the model for real-time emotion detection.

### Credit Card Approval Project

May 2024 – June 2024

- Created a predictive model to determine credit card approval.
- Used logistic regression and data preprocessing techniques.
- Improved model accuracy and integrated it with a user-friendly interface.

### Time Series Forecasting Project

February 2024 – March 2024

- Used machine learning and statistical methods to forecast future values based on past time-series data.
- Implemented models and data processing using Python/R with libraries like statsmodels, scikit-learn, and TensorFlow/Keras for statistical analysis and machine learning.

## Certifications and Achievements

- **Data Science Certifications:** IBM (Data Science, Python for Data Science, SQL)
- **Generative AI:** AWS (Udacity)
- **Machine Learning:** SAS (End-to-End Practice)
- **Artificial Intelligence Fundamentals:** Cognizant, IBM
- **Big Data, Artificial Intelligence, and Ethics:** University of California, Davis
- **Analytics:** Google Analytics Certification
- **Finalist in DEVSOC'24 hackathon by CodeChef VIT(Top 10%)**
- **Finalist in Code4Change hackathon by CSED VIT(Top 5%)**

Extracurricular Activities

**IEEE Power Electronics Society**  
*Board Member, Co-Secretary (2023-24), Chairperson (2024-25)*

- Led as the Co-Secretary for a college events club during the academic year 2023-24, overseeing coordination, event management, and strategic planning.
- Elevated to Chairperson for the academic year 2024-25, increasing event participation by 40% and initiating 4 new programs.

VIT Vellore, India  
2023 – Present

**Scope for Change (NGO) and Pawzz (NGO)**  
*Fundraising Intern*

- Served as a fundraising intern for organizations assisting underprivileged children.
- Contributed to fundraising efforts for Pawzz, a prominent animal welfare organization, and Scope for Change, a non-profit dedicated to sustainable development and community empowerment.
- Secured resources, surpassing fundraising goals by 20%.

Virtual  
August 2023 – September 2023

**Affordable Medical Device Development Hackathon**  
*Coordinator*

- Successfully managed event logistics, ensuring smooth execution and participant engagement.
- Collaborated with teams and mentors to facilitate brainstorming and idea development for affordable medical solutions.
- Provided guidance and support to participants, assisting in the development of prototypes and technical solutions.

VIT Vellore, India  
October 2024

Technical Skills

**Programming:** Python, Embedded C, Java

**Design Tools:** AutoCAD, PSPICE, MATLAB, Simulink, PLECS

**Technologies:** Pandas, NumPy, Snowflake, MS Excel, Tableau, Power BI, AWS-SageMaker, Apache Spark, Databricks

**Tools:** Git, GitHub, AWS, Postman, VS Code, Jupyter Notebook, PyCharm

**Machine Learning Libraries:** TensorFlow, Keras, scikit-learn, statsmodels, PyTorch

**Other Skills:** Data Analysis, Data Visualization, Model Deployment, Microsoft Office