

# VRAJKUMAR PATEL

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## SUMMARY

A driven Computer Science and Engineering undergraduate specializing in Artificial Intelligence and Machine Learning, adept in Python, Java, and C++. Passionate about leveraging cutting-edge AI/ML technologies to devise innovative solutions for complex challenges, with a portfolio of impactful projects showcased on GitHub. Committed to contributing technical expertise and ingenuity within dynamic, forward-thinking environments.

## EDUCATION

### Bachelor of Engineering in Computer Science

Aug 2021 – June 2025

Drs. Kiran & Pallavi Patel Global University KPGU, Vadodara, India

- CGPA: 8.82

### Higher Secondary (12th) Science

June 2020 – May 2021

GNFC Narmada Vidyalaya (GHSEB), Bharuch, India

- Percentage: 84.4%

## SKILLS

### Technical Skills:

- Python, Java, C++
- Machine Learning models
- Data Structures and Algorithms
- Natural Language Processing (NLP)
- DBMS (using SQL)
- Large Language Models (LangChain)
- Neural Networks
- Web Development (using React JS)
- Speech and Pattern Recognition
- Data Visualization (Power BI)
- Computer Vision (CV)
- Data Science

### Soft Skills:

- Verbal Communication
- Written Communication
- Teamwork
- Time Management
- Attentive
- Decision-making
- Public Speaking
- Project Management
- Problem Solving

## PRACTICAL EXPERIENCE

### AI/ML Intern | MaMo Technolabs LLP

Jan 2025 – May 2025

- Secured a coveted AI/ML Internship at MaMo TechnoLabs LLP, contributing to pioneering projects utilizing state-of-the-art machine learning models and AI technologies.
- Engaged in collaborative efforts with diverse teams during a 3-month tenure, refining expertise in AI/ML development and adeptly tackling complex problems.

### AI Intern | Infosys Springboard

Oct 2024 – Jan 2025

- Worked on "From Alt-text to Real-context," a project focusing on Large Language Models and AI tech integration.
- Integrated APIs such as ChatOpenAI and Google Gemini for backend tasks like image processing and text generation, combined with a Next JS frontend.

### Machine Learning Intern | InternPe

Sept 2024 - Oct 2024

- Finished a one-month internship, gaining hands-on machine learning experience.
- Worked on projects such as Diabetes Prediction, IPL match winner prediction using Streamlit, Car Price Predictor, and Breast Cancer Detector using patient data.

### Machine learning Intern | SkillCraft Technology

Aug 2024 - Sept 2024

- Completed a four-week internship, gaining practical experience with various machine learning models and applications.
- Worked on tasks such as House Price Prediction, Mall Customer Segmentation, Animal Prediction, and Hand Gesture Recognition using Kaggle datasets.

### Machine learning Intern | Cognifyz Technologies

June 2024 - July 2024

- Completed a one-month internship, gaining practical knowledge of machine learning models and real-world applications.
- Worked on tasks such as Restaurant Rating Prediction, Hotel Recommendation, Cuisine Classification, and Location-Based Analysis using predefined datasets.

## PROJECTS

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### CaptionPro : From Alt-text to Real-context

Oct 2024– Jan 2025

- **Objective:** To develop an effective Frontend to integrate the backend service using Flask and several large Language Models (LangChain) like Meta Llama 3.2 Vision-Instruct for Multimodal Datasets, to generate the analysis and enhanced text from the uploaded images.
- **Technologies Used:** Flask, LangChain, LLMs (OpenAI and Gemini), Hugging Face models, Next.JS Bootstrap, Flask-cors, Pillow, API Integration of Gemini and ChatOPENAI.

### Image Captioning using Attention-based ResNet

June 2024 – Aug 2024

- **Objective:** Build an simple web application using Streamlit to handle the backend service for generating effective captions for complex images using Convolutional Neural Network (CNN) and Long Short-Term Memory (LSTM).
- **Technologies Used:** Python, Tensorflow, Keras, Streamlit, Pandas, Numpy, Pillow, Matplotlib, CNN and LSTM pre-trained model, Attention mechanism for effective feature extraction.

### Stock Market Analysis and Prediction Website using Machine Learning

Feb 2024 - May 2024

- **Objective:** Developing a website that forecasts and analyzes the stock market using machine learning.
- **Technologies Used:** Numpy, Pandas (for data processing), Streamlit for the web interface, and machine learning tools for the model (Linear Regression and LSTM pre-trained models).

### Code Analyzer for Beginners

Nov 2023 – Dec 2023

- **Objective:** To develop a beginner-friendly web-based code analyzer that provides syntax checking, token analysis and execution for multiple programming languages, while offering visual syntax highlighting and user-friendly insights and out of the code structure.
- **Technologies Used:** Built using Flask for the web application backend, Pygments for syntax highlighting, Python for token analysis and execution, HTML for templates and subprocess for cross-language code execution.

### Travel and Tourism Website Development using Bootstrap

Jun 2023 – Aug 2023

- **Objective:** Create an intuitive website focused on tourism management and providing services like building itineraries and booking payment using RazorPay.
- **Technologies Used:** JavaScript for additional features, HTML/CSS, and Bootstrap for responsiveness and front-end design, RazorPay.

## PUBLICATIONS

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### From Alt-text to Real Context: Revolutionizing image captioning using the potential of LLM

January 2025

International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)

DOI: <https://doi.org/10.32628/CSEIT25111238>

## CERTIFICATIONS

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- **IBM SkillsBuild** : Artificial Intelligence Fundamentals
- **BCG-X** : Data Science Job Simulation
- **BCG-X** : GenAI Job Simulation
- **CDAC** : Diploma in Multilingual Computer Programming
- **Cisco** : Introduction to Data Science
- **Tata Group** : Data Visualizations - Empowering Business with Effective Insights
- **VOIS (Vodafone Idea Intelligent Solutions Foundation)** Certificates
- **Infosys SpringBoard** Certificates

## EXTRACURRICULAR ACTIVITIES

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- **Event Coordinator:** Organized university events like **Engineer's Day** and **Freshers' Orientation**.
- **University Representative:** Participated in the **Devang Mehta Excellence IT Award** for "Stock Market Analysis and Prediction."
- **Sports Participation:** Played district-level Cricket, Kabaddi, and other sports.
- **Active in Society:** **Animal Welfare Coordinator** for **The Rotary Club, Bharuch**, raising funds for animal welfare.

## ADDITIONAL INFORMATION

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- **GitHub:** <https://github.com/Vraj2003v>
- **Languages:** English (C1), Hindi (B2), Gujarati (Native)
- **Google Cloud Skillsboost:** [Public Profile link of Google Cloud Platform](#)