

Arpit Vishwakarma

ScriptSeekers

arpitvish127@gmail.com | LinkedIn | Maharashtra, India

Summary

AI/ML-focused engineering student with hands-on experience building end-to-end machine learning, computer vision, and Generative AI systems. Strong background in Python-based development, including full-stack applications, ML model development, and real-world problem solving. Proven ability to design, implement, and integrate AI solutions through projects such as AI-based study planning, object detection using YOLOv3, and predictive modeling. Actively seeking AI/ML internship or entry-level roles to apply and expand technical skills in production-oriented environments.

Top Skills

- **Programming Languages:** Python, Java, C, C++, R, SQL
- **Core Machine Learning:** Regression, Classification, Supervised Learning, Feature Engineering, Model Evaluation, Train/Test Splits
- **Deep Learning & Computer Vision:** Convolutional Neural Networks (CNNs), Object Detection, YOLOv3, OpenCV, Image Processing Pipelines
- **Natural Language Processing (NLP):** Text Preprocessing, Tokenization, Sentiment Analysis, Rule-Based NLP, Vector-Based Retrieval
- **Generative AI:** Prompt Engineering, Retrieval-Augmented Generation (RAG), Context-Aware Question Answering
- **Data Science & Analytics:** Pandas, NumPy, Scikit-learn, Exploratory Data Analysis (EDA), Data Visualization
- **Full-Stack Development:** Flask, REST APIs, HTML, CSS, JavaScript, SQLite, Authentication Systems (Login, OTP, Registration)
- **Model Persistence & Usage:** Pickle, Local Model Serving, API-Based Model Integration
- **Automation & Data Collection:** Web Scraping, BeautifulSoup, Requests
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Power BI

Projects

AI-Based Study Planner (AIBSP)

Full-Stack + AI

Python (Flask), HTML, CSS, JavaScript, SQLite, Authentication

- Developed a full-stack AI-based study planner to create and manage personalized learning schedules.
- Implemented secure authentication including user registration, login, and OTP verification.
- Designed REST APIs and integrated frontend with backend and database.

Object Detection System using YOLOv3

Computer Vision / Deep Learning

Python, OpenCV, YOLOv3, CNNs

- Built a real-time object detection system using YOLOv3 and OpenCV.
- Applied pre-trained deep learning models for multi-object detection in images and video streams.

Disease Prediction Using Machine Learning

Applied Machine Learning

Python, Scikit-learn, Pandas, NumPy

- Created supervised machine learning models to predict diseases based on medical input parameters.
- Performed data preprocessing, feature engineering, and model evaluation.

Car Price Prediction System

Machine Learning / Regression

Python, Pandas, NumPy, Scikit-learn, Matplotlib, Pickle

- Built a regression-based machine learning model to predict car prices from historical data.
- Conducted exploratory data analysis and saved trained models for reuse.

Additional Projects

- Sentiment Detection (NLP-based text classification)
- Retrieval-Augmented Generation (RAG) System
- Web Scraping using BeautifulSoup and Requests
- Data Analysis and Visualization with Pandas

Experience

Thakur College of Science & Commerce	Maharashtra, India
<i>Tribe Head</i>	Jul 2025 – Present
<i>Class Representative</i>	Jun 2025 – Present
<i>Core Member — Freshers 2025</i>	Jul 2025

Education

Thakur College of Science & Commerce	Mumbai, Maharashtra
Bachelor of Science (B.Sc.) in Artificial Intelligence & Machine Learning	Jun 2024 – Jul 2027
Shri T. P. Bhatia Jr. College of Science	Mumbai, Maharashtra
Higher Secondary Certificate (HSC) — Science Stream	Jun 2022 – Jul 2024
Sardar Vallabhbhai Patel Vividh laxi Vidhyalaya (SVPVV)	Mumbai, Maharashtra
Secondary School Certificate (SSC)	Jul 2017 – Jun 2022
St. Lawrence High School	Mumbai, Maharashtra
Secondary Education	Jun 2013 – Jun 2017

Internships

• AI & ML Intern — Kodacy	Sep–Oct 2025
• Python Development Intern — CODEXINTERN	Nov 2024
• Front-End Development Intern — CODEXINTERN	Nov 2024

Certifications

• Python for Data Science — NPTEL	Oct 2025
• Machine Learning Using Python — Simplilearn	Sep 2025
• Introduction to Deep Learning — Infosys	Jun 2025
• Encoder–Decoder Architecture — Simplilearn (Google Cloud)	Sep 2025
• Introduction to Generative AI Studio — Simplilearn (Google Cloud)	Sep 2025
• Built RAG Chatbot with Python — LetsUpgrade	Jun 2025
• Advanced Python — Infosys	Jun 2025
• Git & GitHub Bootcamp — LetsUpgrade	Jun 2025
• Power BI for Beginners — Simplilearn (Microsoft)	May 2025
• Data Science & Analytics — HP LIFE	May 2025

Co-Curricular Activities

• TechFest, IIT Bombay — Certificate of Excellence & Event Manager	Oct 2025
• Youth Parliament Sitting — Ministry of Parliamentary Affairs, Government of India	Aug 2025
• Quiz on National Flag — Ministry of Youth Affairs & Sports, Government of India	Aug 2025