

# 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

<b>Thakur College of Science &amp; Commerce</b>	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

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

## Internships

- |   |              |
|---|--------------|
| • <b>AI &amp; ML Intern</b> — Kodacy                | Sep–Oct 2025 |
| • <b>Python Development Intern</b> — CODEXINTERN    | Nov 2024     |
| • <b>Front-End Development Intern</b> — 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

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