

Aayush Vishnoi

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“Engineering Intelligence: From Vision to Reality”

Personal Profile

A Master of Technology (MTech) student at Defense Institute of Advanced Technology (DRDO DIAT) enrolled in the Automation and Robotics Engineering program. Graduated in Bachelor of Engineering from Rajiv Gandhi Proudhyogiki Vishwavidyalaya in the Computer Science Engineering program. Dedicated to software engineering and automation having two or more years of expertise, and specializing in full-stack web development, algorithms, data base management, data collection and machine learning. Searching mostly for Machine Learning, Computer Vision, Data Engineer, and Python Developer positions.

Education

Defense Institute of Advanced Technology (DRDO DIAT)

Pune, India

MTech in Automation and Robotics Engineering

August 2024 - Current

- Studying about closed loop control systems.
- Researching on machine vision and path planning
- **Courses:** Control Systems, Mechanisms, Kinematics of Robots, Sensors, Actuators and Drivers, Industrial Automation, Industry 4.0, PLC Programming, Ordinary Differential Equations, Linear Algebra, Operation Research, Probability and Statistics

Rajiv Gandhi Proudhyogiki Vishwavidyalaya (R.G.P.V) University)

Bhopal, India

BTech in Computer Science Engineering

Sept 2020 - June 2024

- Lead AI/ML developer for Google Developer Students Club of the college.
- Worked as a freelance software developer.
- **Courses:** Data Science, Programming for Data Science, Soft Computing, Programming in PYTHON, Artificial Intelligence, Machine Learning, Statistical Learning, Analysis and Design of Algorithms, Object Oriented Programming and Methodology, Computer Networking, Compiler Design, Operating System, Database Management System, Operating System, Numerical Methods, Statistics, Fourier and Fuzzy Theory, and Computer Organization and Architecture

Yug Dharma Public School (CBSE Board)

Bhopal, India

High School

Apr 2017 - Apr 2020

- Passed with Distinction
- Specialised in Physics, Chemistry, and Maths with Computer Science

Work Experience

Indian Institute of Technology

Delhi, India

Student

Jan 2024 - Feb 2024

- Collaborated with a four-person team to develop a Computer Vision model for a project under Foundation for Innovation and Technology Transfer (FIIT) Computer Vision Course that utilised Open CV as a foundation to detect coins of Indian currency from a live video feedback and count the total value of those coins.
- Significantly boosted the model's accuracy by improving feature extraction and image preprocessing to accurately detect several mints of coins at a fixed distance of 25cms from the camera.
- **Technical Skills:** Python with OpenCV, cvzone NumPy, tkinter, Scikit-learn, Scripting, Git.
- **Soft Skills:** Teamwork, Time Management, Communication, Presentation skills.

Clumoss

Indore, India

Intern

August 2023 - September 2023

- Worked on training a machine learning model with the data provided by the company.
- Used data cleaning and feature extraction to increase the accuracy of the model.
- **Technical Skills:** Python with Flask, Pandas NumPy, Matplotlib, tkinter, Scikit-learn, LightGBM, Statsmodels, Git.
- **Soft Skills:** Time Management, Communication and Presentation skills.

Farmkart

Indore, India

Freelancer

April 2023 - June 2023

- Developed a Product Recommendation model for the website that recommends farming tools, equipment and farming practices required to grow a particular crop in a given state and season.
- Used data extraction and cleaning along with high-performance gradient boosting with machine learning algorithms to get a high accuracy model.
- **Technical Skills:** Python with Django, Pandas NumPy, Matplotlib, tkinter, Scikit-learn, LightGBM, Statsmodels, Git.
- **Soft Skills:** Time Management, Communication, Requirements and feature understanding and Presentation skills.

University Projects

Automated Attendance System

Defense Institute of Advanced Technology (DRDO DIAT)

Pune, India
Sept 2024 - Nov 2024

- Made an attendance system using facial recognition.
- Using mobile camera for capturing video through wifi to make capturing attendance easily.
- Multiple face detection in cluttered environment.
- Connected the whole system with MYSQL database to maintain and keep track of attendance easily.
- **Technical Skills:** Python with MySQL, OpenCV, numpy, tkinter and Git.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing, Team Management.

News Validator

Rajiv Gandhi Proudlyogiki Vishwavidyalaya (R.G.P.V) University

Bhopal, India
Jul 2023 - Dec 2023

- Scraped news articles of various genre from multiple websites including real factual news and fake/parody news
- Performed sentiment analysis on the articles and trained the model to detect fake news and true news.
- Hosted the whole project on pythonanywhere by converting it into a flask app and creating APIs for the model.
- **Technical Skills:** Python with MySQL, Scikit-Learn, Pandas, Flask, REST APIs, regex, scipy, nltk, numpy, openpyxl and Git.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing, Team Management.

Connect Four Game with AI

Rajiv Gandhi Proudlyogiki Vishwavidyalaya (R.G.P.V) University

Bhopal, India
Oct 2023 - Nov 2023

- A game of connect four with an AI to play against with user friendly UI and beautiful graphics. Made in collaboration with Google Developer Students Club for Hacktoberfest 2023.
- Game uses alpha beta pruning with minmax algorithm which allows AI to calculate up to depth 6 which makes it almost unbeatable for humans. It works slow at depth 7 at which it truly is unbeatable.
- **Technical Skills:** Python with Numpy, Pygame and Git.
- **Soft Skills:** Collaborative skills, Leadership, Teamwork, Logical Thinking, Creative Thinking.

Portfolio Generator

Rajiv Gandhi Proudlyogiki Vishwavidyalaya (R.G.P.V) University

Bhopal, India
Mar 2023 - Apr 2023

- A static website generator specifically for generating portfolio websites. It is ideal for people who require a quick portfolio or for generating a boilerplate code for a custom portfolio.
- Has user friendly and easy to use UI with a simple form that users can fill to generate a code with HTML, CSS and JS to compile their portfolio website.
- **Technical Skills:** Node with Javascript, HTML and CSS along with Bootstrap, React, SCSS and Git.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking, UI/UX Designing and Developemnt.

Skills

Programming	Python (Pandas, PyTorch, NumPy, Scikit-learn, Pygame, Django. etc.), PHP, C/C++, Node (HTML, CSS, JavaScript, React, Scss, SQL)
Softwares	Matlab, Simulink, ROS2, Gazebo, Arduino cloud
Miscellaneous	Blender, Unity, Java, Figma, Adobe, Hadoop, Microsoft Office, Oracle, Git.
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation, Requirement and Feature understanding, UI/UX designing.

Achievements

2024	Qualified , Graduate Aptitude Test In Engineering (GATE)	India
2024	90 percentile , Common Admission Test (CAT)	India
2023	Team Lead , AI/ML Developer for GDSC IPS (2023-24)	India
2023	Certificate of Appreciation , AI/ML Intern at Clumoss	India
2023	Certificate of Completion , The Complete Node.js Developer Course	India
2022	Certificate of Completion , Python and Django Full Stack Web Developer Bootcamp	India
2017	Student Of The Year , MGM Hr. Sec. School	India

Interests

Book Reading	I love to read books of science fiction and thriller genres. Some of my favorite authors are Douglas Adams, Holly Jackson, Blake Crouch and Alex Michaelides. I've gotten a small science fiction story published myself in book called UnAltered Anecdotes privately published on 7th March 2018.
Studying CGI	I have always wondered about how they create CGI objects and scenes in movies and since 2021 I've started to learn 3D modeling and design using Blender and Unreal Engine
Video Games	I love playing video games. I went from playing competitive pvp games like Call of Duty and GTA online to playing puzzle games like sudoku, kakuro, chess etc to designing and recreating these games on my own. I recently recreated a variant of chess called HexChess
Working out	I started working out in late 2022 and now I'm addicted to adrenaline rush. I try to take out time for at least some cardio every now and then.
Art	Since 2017, I have been in love with Art including sketching and digital art. I've made several digital sketches using my tablet.
Cooking	I love cooking. I am an expert in most Indian-style cooking, enjoy baking and making my own pizza.

Languages

English	Advanced: CEFR Level C1
Hindi	Mastery: CEFR Level C2
French	Beginner: CEFR Level A1
Python	Advanced
JavaScript	Intermediate
C++	Intermediate