

Vaibhav Jayraj Mandavkar

+91 9518552938 | vaibhavm3247@gmail.com | [github](#) | [LinkedIn](#) | [Kaggle](#)

Education

VIT Bhopal University

M.Tech in Artificial intelligence and data science

GPA: 8.45/10

Bhopal, Madhya Pradesh

Expected May 2026

NBN Sinhgad School of Engineering

B.E. in CSE

GPA: 8.45/10

Pune, Maharashtra

May 2021

Work Experience

ASE - Accenture

Pune

July 21 - March 23

- Designed and implemented solutions on the **Duck Creek platform**, resolving over **30+ production defects** through root cause analysis and debugging with tools like **Trace Monitor** and **Splunk**, improving system stability.
- Led client meetings for requirement gathering, presentations, and issue resolution, enhancing cross-team communication and reducing turnaround times.
- Collaborated with onshore teams to validate and **resolve Priority 2–4 production bugs** within two-week sprint cycles, contributing to faster issue resolution and customer satisfaction..
- Utilised **C#, Azure DevOps**, and **Duck Creek Tracer**, earning the **Duck Creek Policy Certification** for platform expertise.

Projects

[India CPI Analysis Web App](#)

February 2025

- Built an interactive **Streamlit** web application to visualise and forecast India's Consumer Price Index data (2013–2025), allowing users to explore trends by state, sector, and product group.
- Integrated **Plotly** and **GeoJSON** to create dynamic maps and graphs, enhancing data exploration.
- Developed a forecasting module predicting **CPI trends for the next 5 months**, assisting economic analysts.

[Anime Sketch Colourisation with U-Net](#)

August 2025

- Developed an end-to-end deep learning pipeline to automatically colourise anime sketches using a custom **U-Net architecture** with 4-channel input (grayscale sketch + RGB colour scribbles) and 3-channel RGB output.
- Achieved **99.1% loss reduction** over 57 training epochs (from 0.194 to 0.008) using **PyTorch**, demonstrating strong model convergence and learning capability.
- Built a comprehensive inference system with image preprocessing, model loading, and visualisation components, enabling real-time sketch-to-colour conversion with quantifiable results.

[Spotify Playlist Organiser](#)

April 2025

- Developed a **React + TypeScript** application integrated with **Spotify Web API**, allowing users to authenticate and manage playlists with a drag-and-drop interface.
- Enabled categorisation of parent playlists into **up to 4 sub-playlists**, improving user navigation and customisation.
- Styled UI using **Tailwind CSS** for responsive and accessible design.

Skills

Programming Languages: Python

Frameworks & Libraries: TensorFlow, Streamlit, Flask, Pandas, Tailwind, React

Cloud Platforms: AWS

Tools: Git, Docker, Blender, Adobe Illustrator, Vercel

Languages: Marathi, Hindi, English

Certifications & Training:

- DuckCreek Policy Certification: [view](#)
- Microsoft Technology Associate: Introduction to Programming in Python: [view](#)

Extracurricular Activities and Hobbies

- Led Sponsorship & Marketing Team** for the CSE department's intercollege fest, securing funding and managing event promotion.
- Volunteered in organising technical seminars**, contributing to event planning and execution.
- Photography Enthusiast**, specialising in landscape and astrophotography.
- 3D Modelling & Design** using Blender to create realistic product models and environments.
- Graphic Design** with Photoshop and Illustrator for visual storytelling and product mockups.