Subhankar Pandit

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👤 : **https://portfolio-subhankar-pandits-projects.vercel.app/**

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Profile Summary

Final-year B.Tech Computer Science student with a growing interest in **Artificial Intelligence, Machine Learning, and Generative AI**, currently learning to build **intelligent, data-driven applications**. Familiar with **Deep Learning and Computer Vision basics** using **TensorFlow, Keras, and OpenCV**, and exploring **LLM-based applications, chatbots, and agentic AI workflows**. Experienced in **backend development** with **Python, Node.js, Django, and Express.js**, building **scalable REST APIs** and authentication systems. **Familiar with AWS cloud fundamentals**, experimenting with simple deployments and **integrating early-stage AI models** into applications.

Education

- **B. Tech in Computer Science & Engineering** – ITER, SOA University, Bhubaneswar *(2022 – 2026)*
  CGPA: 9.31
- **12th Science** – Kendriya Vidyalaya, Berhampur *(2020 – 2021)*
  Percentage: 93.66%
- **10th Grade** – Kendriya Vidyalaya, Berhampur *(2018 – 2019)*
  Percentage: 93.8%

Work Experience

- Code for Good 2025 – JPMorgan Chase & Co. Team-27 (June 2025)
  - Worked as a **Full-Stack Developer at Code for Good 2025 – JPMorgan Chase & Co.**, building an **Agri-tech** platform for **NGO CML** with **MERN**, **Google OAuth**, and **OTP login**.
  - Integrated **Razor pay, real-time chat**, **chatbot**, **SMS alerts**, and contributed to **React.js frontend** and **data handling**.

- Adobe & NITI Aayog – Student Mentorship Program (September 2020)
  - Selected for a 3-week remote mentorship under **Atal Innovation Mission**.
  - Learned and worked with **Adobe Spark, and Adobe XD**.
  - Designed **UI/UX wireframes** and **digital posters** as part of the program.

Projects

1. Virtual Painter (Computer Vision)
- **Tech Stack: OpenCV, Media pipe**
  - Developed a **real-time Virtual Air Painter** using **OpenCV** and **MediaPipe**, enabling **gesture-based air drawing**, **color selection**, and **eraser control** through **hand tracking**.

2. Food Vision 101 (Deep Learning)
- **Tech Stack: TensorFlow, Keras, NumPy, Matplotlib, Google Colab**
  - Developed a deep learning model using **EfficientNetB0** with **transfer learning** to classify 101 types of food images, achieving **~79% test accuracy** through feature extraction and fine-tuning with **Adam and Lion optimizers**.

3. ML Project
- **Tech Stack: Scikit-learn, Matplotlib, Seaborn, Numpy, Pandas, Flask**
  - Deployed a **Random Forest Regressor** through a **Flask API** enabling real-time **JSON-based predictions**.

4. Voice-Enabled Government Scheme Recommendation Agent (Agentic AI)

- **Tech Stack: Python, Google Gemini API, faster-whisper, gTTS, NumPy, Rule-based Logic**
  - Built a **voice-based AI assistant** using a **Planner–Executor–Evaluator architecture** to collect user details with confirmation handling and recommend eligible government schemes through **LLM-guided decision-making** and **rule-based eligibility logic**.

5. Fine-Tuning a Large Language Model for Academic Question Answering

- **Tech Stack: Python, PyTorch, Hugging Face Transformers, FLAN-T5, DistilGPT-2, Google Colab**
  - Implemented **supervised fine-tuning and instruction tuning** on a custom **academic JSONL dataset**, transitioning from **DistilGPT-2 to FLAN-T5 Base** to achieve **stable, textbook-style question answering**, with proper data validation, label masking, and NaN-safe training.

Skills & Tools

- **Programming Languages:** Python, Java, JavaScript
- **Web Development:** MERN Stack, EJS, Django, HTML, CSS
- **Databases:** MongoDB, MySQL, SQLite
- **Cloud/Deployment:** Vercel, Render, Firebase, Cloudinary, AWS basics
- **Data Science, AI/ML, DL:** TensorFlow, Keras, Scikit-learn, Matplotlib, Pandas, NumPy, Seaborn, OpenCV, Media pipe, Prompt Engineering, Streamlit, Flask
- **Tools & Tech:** Git, Postman, VS Code, IntelliJ, Anaconda, Google colab,
- **Soft Skills:** Communication, Adaptability, Presentation, Decision-Making, Punctuality, Teamwork

Certifications

- TensorFlow for Deep Learning Bootcamp 2026 - **Udemy**
- Python for Machine Learning & Data Science Masterclass 2025 - **Udemy**
- Code for Good Participant 2025 – **JPMorgan Chase, Hyderabad**
- Web Developer Bootcamp 2024 - **Udemy**
- Student Mentee 2020 – **Adobe & NITI Aayog Mentorship Program**