

Subhankar Pandit

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Profile Summary

Final-year B.Tech Computer Science student with strong expertise in **Full Stack Web Development (MERN, Django)** and a deep focus on **Backend Engineering, AI/ML, and Cloud Technologies**. Experienced in building scalable, secure web applications using **Node.js, Express.js, and MongoDB**, and developing **Deep Learning and Computer Vision models** with **TensorFlow, Keras, and OpenCV**. Proficient in **AWS cloud deployment, authentication systems, and REST API integration**. Currently exploring **Generative AI, Chatbot Development, and LLM-based solutions**, with a passion for creating intelligent, data-driven, and production-ready systems.

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

- **Freelance Web Developer** – Solid NGO, Kash College (*September – Present*)
 - Developing a **production-ready MERN + EJS web app** to digitize college and NGO operations.
 - Implemented **role-based JWT authentication, HTTP-only cookies**.
 - Aiming to enhance **data access and resource management** for college education.
- **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. Web Development (Full-Stack Web Applications)

- **Tech Stack: MongoDB, Express.js, Node.js, Cloudinary, Passport.js**
 - Developed a **Yelp-like campground platform** with **full CRUD operations, user authentication, and image upload** functionality.
 - Built using **Node.js, Express.js, MongoDB, EJS, and Cloudinary** for seamless user interaction and media management.
- **Tech Stack: Django, HTML/CSS, JavaScript, SQLite**

- Built a **blog**, **weather app**, and **chatbot** showcasing Django backend, API integration, and dynamic frontend development.

2. 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**.

3. 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**.

Skills & Tools

- **Programming Languages:** JavaScript, Python, Java, C, C++
- **Web Development:** MERN Stack, EJS, Django, HTML, CSS
- **Databases:** MongoDB, MySQL, SQLite
- **Cloud/Deployment:** Vercel, Render, Firebase, Cloudinary
- **Data Science, AI/ML, DL:** TensorFlow, Keras, Scikit-learn, Matplotlib, Pandas, NumPy, Seaborn, OpenCV, Media pipe
- **Tools & Tech:** Git, GitHub, REST APIs, Postman, JWT, Passport.js, OAuth, VS Code, Insomnia, IntelliJ, Anaconda, Google colab, Payment/SMS Gateways, Authentication & Authorization, Prompt Engineering
- **Soft Skills:** Communication, Adaptability, Presentation, Decision-Making, Punctuality, Teamwork

Certifications

- 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](#)