Om Dutt Pandey

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Profile

Hi, I am an enthusiastic undergraduate with a strong passion for innovation, creativity, and teamwork. I have maintained discipline and focus in my studies and am eager to bring the same dedication to a professional environment. With good communication skills, I look forward to collaborating with talented professionals and contributing meaningfully to the team.

EDUCATION

GLA University — Mathura, UP
Bachelor of Technology in Computer Science, AI/ML and IOT — *Aug. 2018 – May 2021*

Kendriya Vidyalaya — SLN, UP
Intermediate — *Apr. 2022 – May 2023*
High School

EXPERIENCE

Android Developer Intern — May 2024 – Aug 2024
BAOIAM Innovations Pvt. Ltd. — *Noida, UP*
- Developed a **robust backend** with **secure authentication** using Firebase as well as MongoDB (as the need changed) and MongoDB to store data for an e commerce application
- Developed a full-stack android application using **Jetpack-Compose (Kotlin), Java and MongoDB**.
- Explored version control using **GitHub** for collaboration in a team project

Hack-N-Win 2.0 - Winner — Mar. 2025
Chandigarh Group of Colleges — *Chandigarh, Punjab*
- Lead team of four members for a 36-hour Hackathon, creating ArchiTech project.
- Created **Generative AI** web app using **React and Django** to generate floor plans based on user provided prompts.
- Used Plotly to perform data analysis and business planning with EBIDTA **visualization**.
- Selected as the best out of **200+ teams** for innovation, execution, and UI/UX quality.

PROJECTS

ArchiTech | *Python, Django, React, SQL, OpenAI (DALL-E)* — Mar 2025
- Developed a full-stack web application using Django serving a REST API with React as the frontend
- Implemented **GAN** to perform **data augmentation** on image data.
- Used Django backend to manage user requests and serve OpenAI API responses efficiently.
- Integrated Plotly Express to visualize EBIDTA, cost, and profit breakdown in interactive dashboards
- Created a real-life solution which came out as winner in **Hack N Win 2.0**, for its scalability and feasibility along with innovation.

Fusion Threads | *Python, OpenCV, TensorFlow, Blender (3D model), Generative AI* — Dec 2024
- Built an application that recommends personalized outfits by analyzing users' body features from uploaded images
- Integrated computer vision models to extract key physical attributes and matched them with a curated outfit database.
- Generated **3D try-on previews** by overlaying selected outfits on a virtual model of the user.
- Focused on user experience with intuitive UI using Jetpack Compose and smooth visualization of recommendations.

SAGE | *Python, OpenCV, Raspberry Pi4* — May 2018 – May 2020
- SAGE – Smart Advanced Gesture-controlled Environment
- Developed an AI-powered system that enables **real-time device control** using hand gestures, inspired by Spiderman's intuitive interaction model.
- Used **Computer Vision**, **OpenCV**, and **Raspberry Pi** to recognize and process gestures with integrated OTP-based security for access control.
- Designed for multi-domain applications including **smart homes**, **healthcare**, **gaming**, and **public infrastructure**.

TECHNICAL SKILLS

Languages:
1. Java
2. Python
3. Kotlin
4. JavaScript
5. SQL
6. MySQL

Frameworks:
1. MERN Stack (MongoDB, Express.js, React.js, Node.js)
2. TensorFlow
3. Flask

Developer Tools:
1. Git
2. GitHub
3. VS Code, Jupyter Notebook

Libraries:
1. Pandas
2. NumPy
3. OpenCV
4. Scikit-learn, Matplotlib, Hugging Face Transformers, etc.