Vansh

AI-ML Intern | VR Designer

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PROFESSIONAL EXPERIENCE

I-HUB AWADH @IIT ROPAR (ONSITE)   Rupnagar, Punjab

MACHINE LEARNING INTERN - *YoloV5, Florence 2, CV2, PyTorch, Roboflow*   **JULY 2024 - PRESENT**

- Led a multi-disciplinary team of **6** as a team leader, integrating and collaborating on various approaches.
- Gained hands-on experience in **Data Visualization**, **AI Model Training**, **Data Preparation**, **Firmware Testing**, **AWS Cloud Computing**, and **Data Management**.
- Achieved a **30%** reduction in annotation workload by developing an AI tool using ML Libraries.
- Analyzed bee activity daily, generating insights that improved project accuracy by more than **20%**.
- Managed DPRs on Bird Acoustics and Bee Audio Analysis, enhancing documentation clarity by **25%**.

BABA FARID GROUP OF INSTITUTIONS (HYBRID)   Bathinda, Punjab

AR/VR DESIGNER – *3DVista, Blender, Unity, 3D Modelling* (Live Preview)   **AUGUST 2023 - PRESENT**

- Led a team of **30**+ to develop a VR model of the campus, covering **5** major colleges and surroundings.
- Created an immersive 3D and Virtual Tour encompassing the entire campus utilizing advanced **VR** technologies in platforms like *3D Vista, Blender and Unity Engine*.
- Enhanced user navigation within the VR tour, resulting in a **30%** increase in user engagement.

EDUCATION

BABA FARID COLLEGE OF ENGINEERING & TECHNOLOGY, BATHINDA   **2022–2026**

Bachelor in Engineering, Computer Science & Engineering   *CGPA – 8.1*

PROJECTS

KISANSEVAK – YOUR AI COMPANION IN FARMING – *Flutter, JS, CSS, Python* (Live Preview)   **FEB 2024 – PRESENT**

- Addresses a critical issue faced by **75%** of farmers globally, focusing on crop yield loss due to diseases.
- Enables farmers to upload images for instant disease detection and treatment recommendations.
- Trained on **10,000**+ images , improving prediction accuracy by **85%**.

AI BASED ANNOTATION TOOL – *Florence 2, OpenCV, Python* (GitHub Repo)   **JULY 2024 – PRESENT**

- Manual annotation platform ready with a seamless **UX**, similar to Roboflow.
- Automatic annotation feature in *testing*, promising significant future impact.
- Enhances productivity by **60%** through efficient dataset handling.

ADDITIONAL INFORMATION

- **Technical Skills:** Python, C/C++, Flask, Data Analysis, ML Algorithms, Generative AI, Prompt Engineering.
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, PyTorch, Tkinter, PyQt5.
- **Algorithms:** KNN, Classification, Linear Regression, Object Detection.
- **Achievements:** Ranked **#1** at State Level in IndiaSkills Competition 2024 in **AR/VR** along with cash prize.
- **Research & Publications:** Review Paper on 'Implementation of Linux Commands : Operating System.'