# MEET PANDYA

Leading Al initiatives from vision research to product deployment at scale. (+91) 9727734988 | meetpandya4715@gmail.com |  $\underline{\text{LinkedIn}}$  |  $\underline{\text{Github}}$  |  $\underline{\text{Kaggle}}$ 

#### CAREER SUMMARY

Al Engineer with 4 years' experience building, optimizing, and leading computer vision products from research to deployment. Skilled in technical leadership, product-driven development, and scaling ML systems across Python, C++, and CUDA platforms.

## CORE TECHNICAL SKILLS

Programming Languages: Python, C++, Shell Scripting

Frameworks/Libraries: PyTorch, OpenCV, NumPy, Pandas, CUDA Programming

**Computer Vision:** Image Registration, Depth Estimation, Stereo Calibration, 3D Reconstruction, Image Segmentation, Anomaly Detection

**Deep Learning:** CNNs, Self-Supervised Learning (SSL), Transfer Learning

Tools: Git, Linux, Anaconda, Docker | Database: PostgreSQL

# PRODUCT AND LEADERSHIP SKILLS

**Team Leadership:** Mentoring Junior Engineers, Technical Guidance, Cross-Functional Collaboration

**Product Thinking:** Defining Product Requirements, Prioritizing Features Based on Business Needs

**Project Management:** Sprint Planning, Deliverable Tracking, Technical Documentation

**Problem Solving:** Failure Analysis, Root Cause Identification, Continuous Improvement Initiatives

#### **EDUCATION**

MASTER'S DEGREE

Software Systems | DA-IICT 2019 – 2021

BACHELOR'S DEGREE

Computer Engineering | Ganpat University 2015 – 2019

## **CERTIFICATES**

IBM Data Science Specialization - Coursera

DeepLearning.Al Deep Learning Specialization - Coursera

IIIT-H CVIT Summer School of Al

## **THESIS**

Indoor Localization and Crowd Behavior Sensing | Aug 2020 – Jun 2021

- Engineered WiFi-based indoor positioning and behavior sensing framework using real-world datasets and custom-built data collection tools.
- Modeled and visualized dynamic crowd behavior patterns for applications in safety planning, trend analysis, and mobility optimization.

## PROFESSIONAL EXPERIENCE

#### **COMPUTER VISION ENGINEER – L2**

- Spearheaded depth estimation initiatives, stereo calibration workflows, and 3D reconstruction pipelines, enabling more precise vehicle profiling under challenging real-world conditions.
- Directed failure case analysis and data-driven accuracy improvement efforts, coordinating closely with research leadership and product teams to align solutions with business requirements.
  - [Reduced false positives by 20-25%, Increased Threat detection rate by 15-20%]
- Managed client-server model deployments involving multimodel orchestration, CUDA-based inference optimization, and real-time system performance tuning.
  - [Managed deployment of 3+ models of different modality across multiple clients]
- Mentored research interns for Monocular depth estimation, Synthetic data generation, and point cloud refinement, plus model training best practices and research prioritization frameworks., and junior engineers on software debugging (e.g., memory leak detection, etc.).
- Contributed to product strategy by analyzing hardware-software trade-offs, suggesting hardware upgrades, and evaluating model integration feasibility for next-gen UVSS platforms.
- Contributed to streamlining recruitment and onboarding process via resume shortlisting and planning induction.

#### **TEACHING ASSISTANT**

DA-IICT | Gandhinagar, Gujarat, India Aug 2019 – Mat 2021 Assisted in teaching Computer Architecture and Linux Systems; conducted tutorials, supervised labs, and mentored students on system programming and operating systems concepts.

# **PUBLICATIONS**

- DepScan: 3D Under Vehicle Scanning System [link]
- Segregating and Recognizing Human Actions from Video Footages Using LRCN Technique [link]