

Pratham Jain

Final-year B.Tech (CSE-AI&ML) with hands-on lab experience testing digital circuits & writing C/C++ diagnostics. Comfortable with oscilloscopes, logic analyzers, Python data scripts, and protocols such as USB & PCIe/NVMe. Seeking to define low-cost test flows and drive yield/DPPM improvements for 3D NAND products.

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EDUCATION

SRM Institute of Science and Technology <i>Bachelor of Technology in Computer Science and Engineering - AI&ML</i>	May 2026 CGPA : 9.47
Nand Vidya Niketan,Jamnagar <i>XII from Central Board of Secondary Education</i>	March 2022 Percentage : 87.4%
Nand Vidya Niketan,Jamnagar <i>X from Central Board of Secondary Education</i>	March 2020 Percentage : 90.2%

EXPERIENCE

IT Intern <i>Reliance Industries Limited</i>	May 2024 – June 2024 <i>Jamnagar, India</i>
<ul style="list-style-type: none">Streamlined the processing of 6,600+ customer contact records by building a data validation and deduplication pipeline, reducing redundant CRM entries and cutting call volume by 30%.Developed an automated call logging system using internal CRM tools and scripting, increasing record accuracy by 25% and reducing average call handling time by 10%.Built Excel-VBA dashboards to trend failure rates & DPPM across 6 600 service records, enabling 20 % faster root-cause isolation.Utilized Excel VBA and Power BI to analyze user engagement trends, enabling actionable insights that boosted service team response efficiency by 20%.Collaborated with IT and operations to deploy solutions into existing legacy infrastructure with zero major downtime, improving team productivity and client satisfaction by 15%.Partnered with cross-functional R&D and ops teams to triage RMA returns, reproducing failures and updating test scripts to prevent recurrence.	

PROJECTS

Facial Recognition Attendance System (AI Project) / OpenCV,TensorFlow	Jan 2024 – March 2024
<ul style="list-style-type: none">Engineered a real-time attendance platform that detects and verifies faces in live camera feeds using OpenCV and pre-trained CNN models.Modeled a custom TensorFlow classifier on 200 + student images, fine-tuning preprocessing pipelines to reach 95% accuracy across varied lighting and angles.Automated CSV-based attendance logs, eliminating manual entry and trimming weekly processing effort by 90%.	
American Sign Language Recognition System / MediaPipe,Random Forest,CV	Dec 2023–Feb 2024
<ul style="list-style-type: none">Architected a real-time ASL interpreter that captures hand-landmark metrics with MediaPipe and classifies gestures via a RandomForest ensemble.Evaluated 2000 + gesture samples, extracting 21 key joint features to boost model precision and robustness.Integrated an NLP layer that converts recognized gestures to context-aware sentences, enhancing accessibility for hearing-impaired users.Optimized inference to cut latency by 20% while sustaining 90%+ precision across all 26 alphabet signs.	

- Created a responsive, mobile-first portfolio site that showcases projects, skills, and resume with a minimalist UI/UX.
- Launched via GitHub Pages, integrating EmailJS contact forms and on-page SEO, which lifted organic traffic by **40%**.

Memory-Interface Exerciser / *C, Logic Analyzer, PCIe* | 2025

- Wrote C test firmware that drives pseudo-random traffic over an FPGA-based PCIe endpoint and logs errors.
- Captured eye-diagram & BER data with high-speed scope; automated pass/fail in Python, cutting manual validation time 40 %.

TECHNICAL SKILLS

Test & Lab Equipment: Oscilloscope, Logic Analyzer, Signal Generator, Memory Testers

Protocols & Interfaces: USB 3.0, PCIe / NVMe, eMMC, I²C, SPI

Programming: C, C++, Python, Bash

Data & Statistics: Excel VBA, Power BI, Pandas, JMP (basic)

Operating Systems: Ubuntu Linux, Windows

Tools: Git, Docker, GitHub Actions

CERTIFICATIONS

Microsoft Certified: Azure Fundamentals

Microsoft

Oracle Certified Foundations Associate

Oracle

Database Structures and Management with MySQL

Coursera

Introduction to Front-End Development

Coursera

HTML and CSS in Depth

Coursera

Programming with JavaScript

Coursera

Introduction to Machine Learning

Coursera

Ask Questions to Make Data-Driven Decisions

Coursera

Elite Certificate in Introduction to Machine Learning

NPTEL