

# **SHUBHAM BADLANI**

**B.E. (Electronics Engineering – VLSI Design and Technology)**

**Pune, Maharashtra**

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## **Career Objective**

As an enthusiastic Electronics Engineering student with strong foundations in both hardware and software domains, I aim to work for a global organization where I can utilize my skills and increase my knowledge, grow through real-world challenges, and innovate solutions that drive impact.

## **Experience**

- **Research & Development AI Engineer Intern** June-Aug 2025  
Sciometric Technologies India PvtLtd (TASI India)
- **Angular Intern** Nov-Jan 2025  
Infosys SpringBoard

## **Academic Credentials**

- **KJ College of Engineering and Management Research (SPPU), Pune**  
B.E. in Electronics Engineering – VLSI Design and Technology – Pursuing (2023-2027)
- **Central Academy, Central Board of Secondary Education, Jodhpur (Rajasthan)**  
Senior Secondary with 80% in May 2023 (PCM)
- **Central Academy, Central Board of Secondary Education, Jodhpur (Rajasthan)**  
Secondary with 90% in May 2021

## **Projects Undertaken**

- Climate Prediction (Kaggle Published Notebook): ML models predicting rainfall & temperature trends (1901–2020 dataset). Link: <https://www.kaggle.com/code/shubhambadlani/predicting-climate>
- CTS Leak Test - Phase Deviation Detector : Industrial IoT Leak Detection System: End-to-end anomaly detection pipeline with Streamlit dashboard & retraining mechanism.
- Python-MySQL Based Student Result Processing Application (2025)
- AI ChatBot for Farmers (2024): Integrated AI & weather API with localization and text-to-speech.
- FPGA & HDL Mini Projects – Verilog-based counters, FSMs, ALU.
- VLSI CMOS Circuits – Designed basic CMOS logic using Microwind.
- Ethereum-based decentralized application (dApp): Working with IPFS and Ethereum smart contracts (2024)
- An Automated Penetration Testing Tool - BREACHHUNTER (2024)
- AI Embedded Smart Watch (2024): Real-time health data analysis using sensors.

- PlanN-Go Hub (2024): A full-stack travel platform built with modern web tech.
- Electric Bicycle (2023): Hardware-focused innovation for electric mobility.
- Personal Portfolio (2023): Web-based portfolio showcasing skills and projects.
- Real-time Weather Website (2023): Dynamic site using live API data.
- Enhanced To-Do List, Calculator, Shopping Web Page.

## **Achievements / Certifications**

- Fundamentals in C – E&ICT Academy IIT Kanpur (2023)
- AI Fundamentals with Capstone Project– IBM SkillsBuild ( June24-Aug24 )
- Cyber Security Fundamentals – IBM SkillsBuild (2024)
- Excellence in DSA Rank 1000<sup>th</sup>- UnStop (2024)
- C Programming (2024)
- HTML, CSS, JS, Tailwind, Angular – Infosys Springboard (2024)
- Campus Ambassador – Acmegrade (2024)
- Web development Intern -MyDailyWork.com (2024)
- Analog Electronics – Udemy (2025)
- Internship Completion (Angular) – Infosys Springboard (2025)
- Internship Completion ( R&D AI ) – **Sciometric Technologies India PvtLtd (TASI India)** (2025)
- Internship Completion (AI Azure) – Microsoft Edunet (AICTE) (2025)
- Internship Completion (Green Skills in AI ) – Edunet (AICTE) (2025)

## **Technical Skills**

- HDL & FPGA: Verilog, VHDL, RTL Design, FPGA Flow, Xilinx Vivado
- Electronics & VLSI: CMOS Design, Control Systems, Analog & Digital Circuits, Signal Systems, LTSpice, Cadence (basic concepts)
- Microcontrollers: 8051, PIC Microcontroller, MPLAB, Keil uVision
- Simulation & EDA Tools: Microwind, Proteus, MATLAB, Multisim
- Embedded & Communication: UART, SPI, I2C, TCP/IP Basics, Arduino
- Languages: C, C++, Python, JavaScript, TypeScript, Verilog HDL
- Web & Frameworks: HTML, CSS, TailwindCSS, Angular, Flask , Streamlit
- Python Libraries & ML/DL: Pandas, NumPy, Matplotlib, Seaborn, Plotly, SciPy, Scikit-learn, TensorFlow, XGBoost, Joblib, Random, Re, OS, Shutil, Glob, Asyncio, Socket, Logging, Snap, IPAddress, OpenCV, NLP, Prompt Engineering, Bayesian Models, Prediction Pipelines, PKL Models
- Data Tools & Visualization: Power BI, Excel, Kaggle Notebooks, Statistics, Data Science Pipelines
- Databases: MySQL , mysql.connector
- Tools/Platforms: Git, GitHub, Arduino IDE
- Hardware: Arduino , TCP/IP Communication
- Soft Skills: Leadership, Problem Solving, Innovation, Team Coordination, Time Management

### **Personal Information**

- Date of Birth: 13 October 2005
- Father's Name: Mr. Paresh Badlani
- Mother's Name: Mrs. Nidhi Badlani
- Permanent Address: House 111, Sector 10, C.H.B, Jodhpur, Rajasthan – 342008
- Languages Known: English, Hindi
- Hobbies/Interests: Cooking, traveling

SHUBHAM BADLANI

15/09/2025