

JAYDEEP BALDE

+91-8788437458

jaydeepbalade15@gmail.com

[linkedin.com/in/jaydeep-balde](https://www.linkedin.com/in/jaydeep-balde)

github.com/JaideepBalde



EDUCATION

Bharatiya Vidya Bhavan's Sardar Patel Institute of Technology, Mumbai

2021 – 2025

Bachelor of Technology in Electronics and Telecommunication Engineering

Narayana E-Techno Junior College, Thane

2019 – 2021

12th Standard (HSC, Maharashtra State Board)

TECHNICAL SKILLS

Programming & Scripting: Python, JavaScript (ES6+), Java, Bash scripting, SQL, C, C++

Backend Development: Node.js, Express.js, RESTful APIs, authentication (JWT), request validation, error handling

Frontend Development: HTML5, CSS3, JavaScript, React (component-based development)

Databases & Tools: MongoDB, PostgreSQL, GitHub, VS Code, Postman

Operating Systems & Systems: Linux (process management, memory/disk, logs, permissions, TCP/IP)

DevOps & Cloud: Docker, Jenkins, CI/CD pipelines, AWS (EC2, IAM, S3), Nginx, Git

Monitoring & Reliability: Prometheus, Grafana, Node Exporter, system metrics, log analysis

INTERNSHIP

SP Jain Institute of Management & Research

Jan 2025 – Jul 2025

Research Intern – Data Analysis & Systems Support

Mumbai, India

- Processed and validated datasets from **200+** participants using Python (Pandas, NumPy).
- Performed statistical analysis including **hypothesis testing (p-test, chi-square)** to validate data patterns.
- Stored and queried structured survey data using **MongoDB** to support analytical workflows.
- Implemented NLP preprocessing pipelines using **Hugging Face models** for text normalization and preparation.
- Conducted root cause analysis and contributed to **SDLC-aligned** technical documentation.
- Automated data cleaning and validation workflows using Python scripts, reducing manual review effort.

PROJECTS

• **Backend Task Management System (SDE Core Project)**

2025

Node.js, Express.js, MongoDB, REST APIs, JWT

- Developed a backend service exposing **12+ RESTful API endpoints** for user and task CRUD operations.
- Implemented **JWT-based authentication**, role checks, and centralized error handling across secured API routes.
- Designed **5+ MongoDB collections** to support task ownership, status tracking, and efficient query patterns.
- Optimized request flow and schema usage to reduce redundant database queries during testing.
- Tested **40+ API scenarios** using Postman, including edge cases and failure handling.

• **Data Analytics & Prediction API (AI/ML Exposure)**

2025

Python, Pandas, NumPy, Scikit-learn, Flask

- Built a Python-based data processing pipeline to clean, transform, and analyze structured datasets.
- Performed exploratory data analysis and feature preparation prior to model training.
- Trained and evaluated machine learning models (linear regression / classification) to generate predictive insights.
- Exposed model predictions through REST APIs using Flask for backend integration.
- Logged model inputs and outputs to support debugging and performance evaluation.

• **Full-Stack Web Application with Backend Integration**

2025

HTML, CSS, JavaScript, React, Node.js

- Developed a responsive frontend using HTML, CSS, and React to consume backend REST APIs.
- Integrated frontend components with backend services for authentication and data rendering.
- Managed API state, loading states, and error responses within React components.
- Implemented client-side form validation and API error handling to improve user experience.

More projects available at: github.com/JaideepBalde

ACHIEVEMENTS

- Ranked **Top 5 / 115+** participants in Barclays Cybershala CTF (system exploitation, security challenges).
- Finalist in inter-college cybersecurity challenge; built USB Rubber Ducky-based keystroke injection tool.
- Published peer-reviewed paper in **IJRASET**: “Speech-Controlled Powerlenses for Optical Wearables.”

CERTIFICATIONS

Barclays Cybershala — Fundamentals of Cybersecurity and Ethical Hacking

2024