

# JAYDEEP BALDE

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## 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  
12<sup>th</sup> 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](https://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