DHRUV BHALODIA

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EDUCATION

IIIT Vadodara - International Campus Diu　　　　　　　　　　　　**December 2022 – May 2026**
Bachelor of Technology in Computer Science　　　　　　　　　　　　*Current CPI: 8.35/10*

EXPERIENCE

Tilva ArtSoft　　　　　　　　　　　　　　　　　　　　**January 2025 – March 2025**
Data Scientist Intern　　　　　　　　　　　　　　　　　*Remote | Certificate*

- Engineered a multilingual text classification model supporting Gujarati, Hindi, and English for business categorization.
- Built an advanced ML pipeline using TF-IDF with stacked Logistic Regression and SGDClassifier, achieving an **90.85%** accuracy.
- Validated model performance through cross-validation techniques, ensuring robustness on diverse inputs.

Sphere Techlabs　　　　　　　　　　　　　　　　　　**May 2025 – July 2025**
Software Engineer Intern　　　　　　　　　　　　　　　　*On-site | Certificate*

- Developed full-stack web applications using the **MERN** stack and created secure **REST APIs**.
- Designed backend services for data handling, user authentication, supporting **10,000+** registered users.
- Optimized responsive **React.js** interfaces, reducing load time by **35%** and improving mobile UX scores.

TECHNICAL SKILLS

Programming Languages : Java (Proficient), Python (Intermediate), C, SQL, HTML, CSS, JavaScript
Technologies & Tools : Git, GitHub, JDBC, MongoDB, MySQL, Selenium
Web Frameworks & Libraries : Node.js, React.js, Express.js, Spring, Tailwind CSS
ML & Data Libraries : PyTorch, Keras, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, BeautifulSoup
Core Competencies : DSA, OOPs, DBMS, Operating System, Computer Networks, AI, ML

PROJECTS

Multilingual Text Classifier | *scikit-learn, TF-IDF, SVM, Logistic Regression, Pandas* | GitHub　　　**July 2025**

- Developed a multilingual classifier to detect category intent using **TF-IDF** and implemented **ensemble** models.
- Achieved over **90% weighted F1-score** on noisy, code-mixed marketplace data in Gujarati, Hindi, and English.
- Improved content moderation by over **70%** through automated, language-agnostic product classification.

Vartalap – Web Chat App | *MongoDB, Express.js, React.js, Node.js, WebSockets* | GitHub　　　**January 2025**

- Created a scalable chat platform supporting **100+ concurrent users** with real-time messaging using WebSockets and MongoDB.
- Optimized frontend performance with **React.js**, reducing response time by **40%** and increasing user engagement by **25%**.
- Built a modular MERN stack architecture for fast deployment, user authentication, and seamless chat synchronization.

Document Structure Analysis | *Detectron2, PyTorch, OpenCV* | GitHub　　　**January 2025**

- Trained an **SVM model** for component detection and built a layout parser using **transfer learning** on **Detectron2**.
- Engineered a document layout parser that improved classification accuracy by **10%** over prior systems.
- Integrated Detectron2 in a **Flask API** as a base module to boost other document models' speed by **40%** and accuracy by **8%**.

ACHIEVEMENTS

Competitive Programming

- Achieved a 1949 Leetcode rating, ranking in top 3.33%, demonstrating strong algorithm and data structure skills.
- Consistently performed at a high level on Codechef with a peak rating of 1840, placing within the top 700 worldwide.

Professional Certifications

- **Full Stack Web Development Bootcamp:** Mastered MERN stack through hands-on project work (Certificate)
- **Data Analysis with Python (IBM):** Built strong foundations in data wrangling and visualization (Certificate)
- **Fundamentals of Deep Learning (NVIDIA):** Learned core DL concepts using CNNs and modern frameworks (Certificate)

POSITION OF RESPONSIBILITY

DCodr Coding Club IIIT Vadodara - ICD　　　　　　　　　　**December 2023 – April 2025**
Secretary

- Led a 14-member club team to organize coding workshops and technical events across semesters.
- Hosted hackathons and coding contests with 200+ participants, boosting campus engagement.