

# Vikas Biradar

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## EDUCATION

### R N Shetty Institute Of Technology

*Bachelor of Technology in Artificial Intelligence and Machine Learning*

Bengaluru, Karnataka

*Dec 2021 – May 2025*

- Cumulative GPA: **8.1/10.0**

### Shri Channabasaveshwar Gurukul College

*Pre-University Education*

Kardyal, Karnataka

*Apr 2019 – May 2021*

- Percentage: **76.66**

### Shri Channabasaveshwar Gurukul School

*10th Standard*

Kardyal, Karnataka

*Apr 2018 – May 2019*

- Percentage: **95.04**

## RESEARCH INTERNSHIP

- **Developed two AI-driven solutions:** (1) AgroAI for crop, fertilizer, and disease prediction, and (2) an automated OMR reader for accurate USN detection — improving efficiency and real-time decision-making.
- Hands-on experience with Python, Flask, TensorFlow (ResNet9), Random Forest, OpenCV, NumPy, and API integration to build scalable and reliable systems.

## TECHNICAL SKILLS

- **Programming:** Python, Java, C/C++, JavaScript, TypeScript
- **Web Development:** React.js, Next.js (App Router), Node.js, Express.js, Tailwind CSS, HTML, CSS, REST APIs, WebSocket (Stomp), JWT Authentication, Nodemailer
- **Backend Frameworks:** Spring Boot, Flask
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis (Pub/Sub, Caching), BullMQ (Queues)
- **DevOps & Tools:** Docker, Git/GitHub, Postman, Heroku, Maven, Recharts (Data Visualization)
- **Other:** Agile Development, Data Structures and Algorithms (DSA), OOP Concepts

## PROJECTS

### MailMetrics – Full-Stack Cold Email Campaign Platform

Jun 2025 – Aug 2025

- **Tech Stack:** Next.js (App Router), React.js, TypeScript, Tailwind CSS, Context API, PostgreSQL, Express.js, Redis, BullMQ, Recharts
- Built a **dashboard application** for managing email campaigns with **authentication, real-time analytics, and customizable layouts**.
- **Optimized** campaign search/filter endpoints using **PostgreSQL Full-Text Search (FTS)** with `ts_rank` function, reducing query latency by **90%**.
- Engineered an **asynchronous BullMQ/Redis pipeline** handling **10,000+ emails/hour** with **99.9% reliability and zero server impact**.

### Chatterbox – Spring Boot Real-Time Messaging App

May 2025 – Jun 2025

- **Tech Stack:** Spring Boot, WebSocket, Redis, JWT, MongoDB, MySQL, Docker, React.js, Tailwind CSS
- Built a scalable, real-time chat system supporting secure group and private messaging between users.
- Implemented **JWT-based authentication** with **MySQL** for secure access control.
- Designed a dual-database approach: **MongoDB** for chat history and **MySQL** for user management.
- Integrated **WebSocket + Redis Pub/Sub** for scalable, low-latency communication.
- Containerized with **Docker** for seamless deployment.

### File Sharing Application

Jan 2024

- Developed a secure file-sharing platform using **Node.js, Express.js, MongoDB, HTML, CSS, JavaScript**.
- Implemented **unique link generation with UUIDs** for sharing up to **100MB** files via direct links or email.
- Added **Nodemailer** for email notifications and enforced security using **CORS-enabled APIs**.