

JIRAPURE SAHIL

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PROFESSIONAL SUMMARY

B Tech – Information Technology student in 7th semester at MIT ADT University, Pune (CGPA: 7.75, expected graduation June 2027). Passionate about Artificial Intelligence and machine learning, with hands-on programming experience building full stack applications using Java, Spring Boot, React, and Docker. Strong coding fundamentals across data structures, algorithms, system design, and OOP. Developed AI-powered systems — including NLP classifiers, machine learning prediction models, and REST API backends — demonstrating analytical and problem-solving skills throughout. Highly adaptable with genuine curiosity and an eagerness to learn in agile, fast-paced environments. Seeking an AI Engineer internship to apply machine learning expertise and full stack development skills toward scalable, production-ready solutions.

TECHNICAL SKILLS

Languages	Java, Python, JavaScript, SQL
AI / ML	Machine Learning, Artificial Intelligence, Scikit-learn, XGBoost, NLP, TF-IDF, TfIDF, Deep Learning, Pandas, NumPy, Matplotlib, Seaborn
Backend	Spring Boot, Flask, REST APIs, WebSockets, JWT Authentication, Microservices
Frontend	React.js, HTML, CSS, Responsive UI Design
Databases	MySQL, PostgreSQL, MongoDB
DevOps / Cloud	Docker, Git, GitHub, AWS, Model Deployment
Concepts	Data Structures & Algorithms, System Design, OOP, Agile/Scrum, Feature Engineering, Problem-Solving, Analytical Thinking, Coding Fundamentals, Full-Stack Development

PROJECTS

AI-Powered Interview Prep Platform | Java · Spring Boot · React · MySQL · Docker · Groq API · JWTJun 2026 – Aug 2026

- Architected a full stack job tracking platform with JWT authentication and role-based access control for Admin, Recruiter, and Job Seeker — applying strong problem-solving and system design skills.
- Built 30+ REST APIs covering job applications, interview scheduling, dashboard analytics, and Artificial Intelligence–assisted features using Groq API for resume analysis and job recommendations.
- Containerized the complete application with Docker for consistent, zero-dependency deployment across environments; managed source control via Git/GitHub following Agile/Scrum practices.

BitChats – Real-Time Chat Application | Java · Spring Boot · React.js · MySQL · MongoDB · WebSocketsJan 2024 – Apr 2024

- Engineered a full stack real-time messaging system using Spring Boot and WebSockets, achieving <200 ms message delivery across 15–20 concurrent users with 1,000+ messages exchanged during testing.
- Implemented JWT-secured authentication with dual-database persistence (MySQL + MongoDB), enabling <300 ms chat history retrieval and demonstrating analytical problem-solving in distributed data design.
- Built a responsive React.js frontend integrated with 12+ REST APIs, delivering consistent UX across mobile and desktop platforms.

AI-Powered Employee Attrition Prediction | Python · XGBoost · Scikit-learn · Pandas · NumPy · MatplotlibJan 2026 – Feb 2026

- Applied machine learning programming to train an XGBoost classifier on 1,470 IBM HR records (35 features), improving prediction accuracy from 78% baseline to 87% through analytical hyperparameter tuning.
- Engineered an end-to-end data preprocessing pipeline (feature encoding, normalization, missing-value handling) and identified 10 key attrition drivers via feature importance analysis.
- Delivered data-driven HR retention insights through Matplotlib/Seaborn visualizations, showcasing Artificial Intelligence applied to real-world business problem-solving.

MINI PROJECTS

- Fake News Detection System** — Python · Flask · NLP · TF-IDF · Scikit-learn · Supabase — NLP classifier trained on 20,800+ articles; 97% accuracy; Flask REST API with Supabase auth.
- Student Management System** — Java · Spring Boot · React · MySQL — Full stack CRUD application with role-based access.

- **Digital Marketing Agency Website** — *React · TypeScript · Next.js · TailwindCSS* — *Responsive, SEO-optimised marketing site.*
- **Expense Tracker** — *Java · Spring Boot · REST APIs* — *Personal finance tracking with categorisation and reporting.*
- **FitSync** — *HTML · CSS · JavaScript · MongoDB* — *Fitness tracking app with workout logging and progress visualisation.*

EDUCATION

MIT ADT University, Pune	2023 – 2027
B.Tech – Information Technology (IT) 7th Semester Expected Graduation: June 2027 CGPA: 7.75	
Mahatma Gandhi College	2022 – 2023
HSC – Maharashtra State Board 63%	
J.C. High School, Karanja Washim	2020 – 2021
SSC – Maharashtra State Board 69%	

CERTIFICATIONS

- Design and Analysis of Algorithms – NPTEL (Jul – Sep 2025)
- Computational Thinking for Problem Solving – Coursera (Dec 2023)
- Introduction to Computers, OS & Security – Coursera (Dec 2023)