MANOJ JIVANAGI

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY   Vellore, Tamil Nadu
B.Tech in Computer Science | CGPA: 7.41/10.0   Expected May 2025

ABHISHEK VIDYALAYAM   Shahunagar, Pune, Maharashtra
Higher Secondary Certificate (HSC), Percentage: 76%   July 2020 - July 2022

PROJECTS

Bingflix: Cloud-Native Movie Recommendation Website *(Collaborative Project)*   Nov 2024 – Feb 2025
**Node.js, Express, Python, Flask, MongoDB, GCP (Cloud Run, Artifact Registry),
Docker, Vercel, JWT, Scikit-learn, REST APIs**
- Engineered a personalized movie recommendation platform integrating **Node.js** backend with a **Python/Flask ML** service, Integrating **GCP Artifact Registry** for container image management and leveraged **Vercel** for frontend/backend hosting
- Containerized **Content-based filtering ML model** (TF-IDF, Cosine Similarity) deployed on **Google Cloud Run**, overcoming serverless function size limitations and Achieved **65% faster recommendation delivery**
- Implemented secure user authentication (JWT) and managed user/preference data using **MongoDB Atlas**
- Architected an asynchronous communication pattern between the Node.js API (Vercel) and GCP ML service to handle potential cold starts and processing latency

Full-Stack Task Management Application *(Internship Project)*   Oct 2024 – Dec 2024
Flutter (Dart), Dart Frog, PostgreSQL, MongoDB, Firebase, Redis, Docker
- Developed **RESTful APIs** using **Dart Frog** for data access across multiple database systems
- Containerized **PostgreSQL**, MongoDB, and Redis instances with **Docker** for consistent environments
- Implemented **Redis caching** which reduced API response time by **40%** and reduce database load
- Built robust authentication with Basic Auth and **JWT Bearer Tokens**, with custom middleware for security

Fitness Tracker Website   May 2024 – Sept 2024
Angular 17, Spring Boot, MySQL, JDBC, Spring Data JPA, Hibernate, Chart.js
- Built a full-stack fitness tracking website using **Angular 17** for the frontend and **Spring Boot** for the backend
- Integrating MySQL via JDBC and **Spring Data JPA/Hibernate** for efficient ORM and persistent data storage
- Implemented user management, activity tracking, and goal setting features
- Designed an interactive dashboard using **Chart.js** to visualize key fitness metrics (steps, calories, sleep), leading to a **30% increase in user engagement** and **positive feedback** on **UI/UX**

TECHNICAL SKILLS

Languages - Python, Java, C++, C, Dart, JavaScript, TypeScript, SQL.
Web/App Technologies: Node.js, Express.js, **Spring Boot, Angular, Flutter**, HTML, CSS, REST APIs, JWT
Databases: MongoDB, **PostgreSQL**, MySQL, Firebase Firestore, Redis
Cloud & DevOps: GCP (Cloud Run, Artifact Registry), **AWS, Docker,** Vercel, Git, GitHub
Libraries/Frameworks: Pandas, NumPy**, Scikit-learn, Spring Data JPA, Hibernate, Mongoose**
Tools: PowerBI

CERTIFICATIONS & ACHIEVEMENTS

- **Smart India Hackathon 2024** | Team Vehicomm | Smart Vehicles Track | 2024
  Developed NFC-based Flutter application for public transportation safety and ticketing system
- **Artificial Intelligence & Deep Learning Certification (Infosys Springboard)**