

THANUSHA A

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TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, C

Frontend: React.js, HTML5, Bootstrap CSS

Backend & Databases: Node.js, Express.js, MongoDB, MongoDB Atlas, RESTful APIs, MySQL

AI / ML & NLP: Scikit-learn, Predictive Modeling, Hugging Face (BART, KeyBERT), NLP, Sentiment Analysis

Tools & Platforms: Git, GitHub, Postman, Figma, Render (Cloud Deployment)

Core CS: DSA, OOP, DBMS

PROJECTS

AI-Powered Sentiment & Insight Extraction System | SIH 2025 Project

Stack: React.js | Flask | MongoDB | NLP (BART, KeyBERT) **Live:** insightsaas.onrender.com

- Engineered an NLP-powered SaaS system that extracts sentiment, abstractive summaries, and domain-specific keywords from unstructured user feedback at scale.
- Integrated Hugging Face transformer models (BART for summarization, KeyBERT for keyword extraction) enabling fully automated, real-time insight generation.
- Developed a React.js analytics dashboard with real-time visualizations, allowing stakeholders to monitor and interpret feedback trends without manual effort.

Trip Booking & Payment Platform | Dec 2024 – Feb 2025

Stack: React.js | Express.js | Node.js | MongoDB **Live:** travora-trip.onrender.com

- Developed a secure, end-to-end trip booking and payment system handling user authentication, bookings, and financial transactions within a single MERN stack application.
- Designed and implemented scalable MongoDB schemas supporting complex relational data between users, trips, and payments, ensuring data integrity at scale.
- Built RESTful APIs handling authentication flows and transaction processing, integrating seamlessly with a responsive React.js frontend.

Freelancer Recruitment Platform | Nov 2024 – Mar 2025

Stack: React.js | Express.js | Node.js | MongoDB **Live:** hireelite.onrender.com

- Engineered a full-stack recruitment marketplace connecting freelancers and clients, supporting end-to-end job lifecycle management from posting to hiring.
- Implemented role-based JWT authentication and authorization for 2 distinct user types (freelancer and client), securing all API routes.
- Designed 15+ modular RESTful API endpoints for job postings, applications, and user account management, achieving clean separation of concerns.

ML-Based Water Potability Prediction System | Apr 2025 – Jun 2025

Stack: Python | Flask | Scikit-learn | Leaflet.js **Live:** neervision.onrender.com

- Built and trained machine learning classification models to predict water potability from 9+ physicochemical parameters, enabling data-driven public health insights.
- Deployed trained ML models via Flask REST APIs, enabling real-time water quality predictions through a web interface.
- Integrated Leaflet.js for interactive geospatial visualization, mapping region-wise water quality data to support location-specific analysis.

EDUCATION

B.E. in Computer Science and Engineering | Bannari Amman Institute of Technology, Sathyamangalam | 2023–2027

CGPA: 8.17/10.0 (through 5th Semester)

Higher Secondary Certificate (PCM + Computer Science) | Sowdambikaa Matriculation Girls HSS, Trichy | 2022–2023

Score: 91.33%

CERTIFICATIONS & TRAINING

- NPTEL – Programming in Java | Score: 93% (Elite Certificate)
- Virtual Internship – Artificial Intelligence | AICTE – Edunet Foundation (IBM SkillsBuild)
- The Complete Full-Stack Web Development Bootcamp | Udemy