Banala Sannihith

Full-stack Developer
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Skills

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, SQL, C#

Frameworks/Libraries: React, Node.js, Express, ASP.NET Core (MVC), Tailwind CSS, Mongoose, GraphQL, Multer, Nodemailer

Databases: MongoDB, PostgreSQL, SQL Server

Tools/Platforms: Git, GitHub, GitHub Actions (CI/CD), Postman, Docker, Vite, Figma, Chrome DevTools

Cloud & DevOps: AWS (EC2, S3, Lambda), Nginx, JWT, OAuth2, REST APIs, GraphQL APIs

Development Concepts: MVC, Event-Driven Architecture, Responsive Design, Unit Testing, Integration Testing, System Design

Projects

Portfolio Website | *React, Node.js, Express, MongoDB, Tailwind CSS* 2025

- Developed a full-stack portfolio application using **React (Vite)** for the frontend, **Node.js/Express** for the backend, and **MongoDB (Mongoose)** for database persistence.
- Implemented secure **RESTful APIs** to serve dynamic profile data (skills, projects, certifications) and integrated **JWT-based authentication** for protected routes.
- Built a contact form service using **Nodemailer** with SMTP (Brevo/Gmail App Password) to deliver transactional emails.
- Configured **Multer + GridFS** for resume upload and file storage with MongoDB, ensuring efficient handling of large documents.
- Optimized UI/UX with **Tailwind CSS**, responsive design, reveal-on-scroll animations, parallax tilt effects, and interactive background visuals.
- Deployed frontend on **Vercel/Netlify** and backend on **Render/Railway**, ensuring smooth CI/CD workflow with **GitHub Actions**.

Customer Analysis and Recommendation System | *Python, scikit-learn, Pandas* 2024

- Analyzed a UK-based e-commerce transactional dataset from 2010–2011 to identify purchasing behavior and customer patterns.
- Transformed raw transactions into customer-centric features (RFM metrics) and performed segmentation using **KMeans clustering**.
- Designed a recommendation system to suggest top-selling products to each segment, leveraging association analysis.
- Improved marketing strategy insights by identifying high-value clusters and their cross-selling opportunities.

Iris Recognition Using Daugman's Algorithm and ANN | *Python, OpenCV, TensorFlow* 2023

- Implemented iris recognition pipeline using **Daugman's algorithm** for segmentation, normalization, and feature extraction.
- Trained and fine-tuned an **Artificial Neural Network (ANN)** classifier for high-accuracy iris pattern matching.
- Optimized preprocessing and hyperparameters to improve classification accuracy and reduce false positives.

Certificates

Machine Learning Specialization Jul 2023
DeepLearning.AI & Coursera

Data Structures in Python Apr 2022
Coursera

Education

MallaReddy Institute Of Technology, Hyderabad 2019 – 2023
Bachelor of Technology in Computer Science and Engineering

Sri Chaitanya Junior College 2017 – 2019
Telangana State Board 12th Grade

Paramita High School 2015 – 2017
SSC 10th Grade