

MANAN NAYAK

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OBJECTIVE

Full Stack Developer with know-how in building robust APIs and scalable systems with Python, Node.js, and MongoDB. Eager to dive deeper into cloud infrastructure, containerization, and tools such as AWS, Docker to deliver back-end solutions.

EDUCATION

University Of Guelph

Master of Engineering, Computer Engineering

Aug 2024

Guelph, Canada

Gujarat Technological University

Bachelor of Engineering, Information Technology

Jul 2019 – Jul 2023

Gujarat, India

PROJECTS

Toxic Comment Classification | Python, TensorFlow/Keras, Scikit-learn

- Built a multi-label classification system to identify toxic comments across six categories using a Wikipedia comment dataset provided by Google Jigsaw (via Kaggle).
- Executed data preprocessing techniques such as **stopword removal, punctuation stripping, and Porter stemming** to normalize textual inputs along with GloVe word embeddings to represent text in a high-dimensional space
- Evaluated and compared multiple ML models including **Bi-Directional LSTM, CNN, SVM(RBF kernel using One vs Rest strategy for multi-label output, Logistic Regression, and XGBoost**
- Tuned hyperparameters and used dropout layers, **early stopping**, and **L2 regularization** to avoid overfitting.

Teams Project Management [↗](#) | React, TypeScript, Node, Express, MongoDB

- Built a full-stack SaaS platform for managing organizations' users, workspaces, projects, and tasks.
- Implemented secure authentication using **JWT** and **Google OAuth 2.0** with Passport.js.
- Implemented **Role Based Access Control (RBAC)** to manage permissions within multi-tenant workspaces.
- Designed reusable, responsive UI components with **React and Tailwind CSS**, optimized with Vite for fast builds.
- Developed modular, scalable RESTful APIs with **Express.js** and modeled relationships using **Mongoose in MongoDB**.

INTERNSHIP

Nupur Software | Frontend Developer

- Contributed to the development of a cloud-based Time and Resource Management System payroll application using Angular, HTML, CSS, and Bootstrap.
- Implemented responsive UI components using Angular Framework, Typescript, and Bootstrap to enhance data visualization
- Developed Angular forms with validations, implemented services, and followed component-based architecture for maintainability.

TECHNICAL SKILLS

Technologies/Frameworks: Python, JavaScript/Typescript, SQL, PostgreSQL, Git/GitHub, ReactJS, NextJS, NodeJS, ExpressJS, MongoDB, TensorFlow/Keras, Scikit-learn, AWS, Docker

EXTRACURRICULAR

HackSVIT Hackathon [↗](#)

Mar 2022

Lead Team

SVIT, Vasad

- Helped plan and execute HackSVIT 2022, a 36-hour national-level hackathon with over 300 participants and a team of 50 volunteers.
- Managed logistics, including venue setup, team registration, and live event operations.