

Yogeshwaran R

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About me

I'm an M.Tech IT student with a passion for machine learning, AI, and harnessing the power of LLMs to solve real-world problems. I believe in the power of collaboration to drive faster, more impactful solutions and enjoy blending creativity with technical expertise to bring innovative ideas to life.

Education

M.Tech in Information Technology Aug 2023 – May 2025
College of Engineering, Guindy CGPA: 7.6/10

B.E in Computer Science and Engineering Aug 2019 – May 2023
Kongu Engineering College CGPA: 8.6/10

Experience

Web Development Intern Remote, India
CodeSpeedy Technology Private Limited June 2024 – July 2024

- Worked on tasks involving Node.js, Next.js, and MySQL.
- Published three technical blog posts, increasing engagement by 20% with over 125 views.

Projects

Anemia Detection Using Machine Learning [GitHub](#) [Deployed App](#)

- Designed a machine learning pipeline to classify anemia using Random Forest and advanced preprocessing techniques, achieving a highly accurate prediction system.
- Incorporated an innovative feature to extract blood attributes from uploaded lab reports using Google Gemini 2.0 for seamless text recognition, integrating the results into the prediction model.
- Addressed class imbalance with SMOTE, boosting model performance by 20% and improving prediction accuracy significantly.
- Developed an interactive web application using Flask, enabling users to input data manually or upload lab reports for real-time anemia classification.
- **Tools Used:** Python, Scikit-learn, Google Gemini 2.0, SMOTE, Flask, Matplotlib, Seaborn.

Robust Classification of Human-Written vs LLM-Generated text [GitHub](#) [Deployed App](#)

- Developed a machine learning framework to classify essays as human-written or AI-generated (LLM-generated) using autoencoder embeddings, readability metrics, stylometry, and lexical diversity.
- Achieved 87.2% accuracy in distinguishing between human and AI-generated essays using a feed-forward neural network.
- Deployed a user-friendly frontend application hosted on Google Cloud App Engine for easy access and interaction with the model.
- **Tools Used:** Python, PyTorch, Autoencoders, Feed-Forward Neural Networks, Google Cloud App Engine, Stylometry, Readability Metrics.

CRM Genie: Natural Language to SQL Query Generator [GitHub](#)

- Developed an AI-powered tool that converts natural language queries into SQL queries for querying customer data from an SQLite database.
- Integrated CodeLlama LLM for natural language processing to generate accurate SQL queries based on user input.

- Developed during the Build2Learn Event at IBM as a collaboration with the team.
- **Tools Used:** Python, CodeLlama LLM, SQLite, HTML, Tailwind CSS.

Event Management Website

[GitHub](#) 

[Deployed link](#) 

- Developed an award-winning event management website that secured Second Prize in Web Designing at NAEVUS'21, conducted by CSI-KEC Student Branch.
- Designed a responsive website offering features such as dynamic content galleries, and interactive testimonials, tailored for weddings, birthdays, and corporate events.
- Optimized user experience with features like dark mode, seamless navigation, and cross-device compatibility.
- **Tools Used:** HTML, CSS, JavaScript, Bootstrap.

Technologies

Languages: C, Python, SQL


Databases: MySQL, MongoDB

Machine Learning: PyTorch, Scikit-learn

Containerization & Version Control: Docker, Git

Platforms: Windows, Linux

Hobbies

Writing Tech Blog Posts: I enjoy sharing what I learn through tech blog posts, aiming to help others while reinforcing my own understanding of new technologies and concepts. [Check out my blog here.](#) 

Reading Non-Fiction Books: I read non-fiction to apply lessons learned to real life, constantly striving to improve myself and become a better person.

Favorite books: The Joy of Less, Goodbye Things, Atomic Habits.