

Yashaswini R

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Education

B.Tech - AIML (7.92 CGPA)

PES University - Bengaluru

2022 - 2026

Senior Secondary (97.67%)

Vidya Mandir Ind. PU College, Bengaluru

2019 - 2020

Project

Transformer-Based Sequence-to-Sequence Model for Language Translation ([Github Link](#))

[Python, PyTorch, numpy, Mathplotlib]

- Built a Transformer-based sequence-to-sequence model, replacing traditional RNN/CNNs with self-attention and multi-head attention as per the "Attention Is All You Need" architecture.
- Designed a custom encoder-decoder with positional encoding, residual connections, and feed-forward layers; achieved strong results on translation tasks, demonstrating efficient parallelization and long-range context capture.

Voter Management System([Github Link](#))

[Python, Flask, HTML, CSS, Jinja2]

- Designed and developed a secure web-based Voter Management System using Flask, implementing features like user authentication, dynamic election creation, candidate registration, and real-time result display.
- Built an intuitive interface with HTML, CSS, Jinja2 templates, and integrated SQLite database for persistent data storage.

Impact of Social Media on Mental Health ([Github Link](#))

[Python, Pandas, Numpy, Scikit-learn]

- Developed an AI model to analyze the impact of social media on mental health, employing causal inference, feature engineering, and classification algorithms.

Telegram Chatbot ([Github Link](#))

[Python, python-telegram-bot, OpenAI, gTTS (Google Text-to-Speech), moviepy]

- Developed a Telegram chatbot integrating OpenAI's GPT-3.5-turbo model to handle both text and voice messages, providing synthesized speech responses.

Hotel Management ([C++ Link](#) , [C Link](#) , [Mern Stack Link](#))

[C, C++, JavaScript, HTML, CSS, Object-Oriented Programming, File Handling, Linked Lists]

- Hotel Management (C++): Implemented a class-based system to manage room bookings, customer details, and billing, utilizing file handling for data persistence.
- Hotel Booking (C): Created a linked-list-based system to manage room reservations, supporting dynamic room and reservation creation.
- NNN (JavaScript, HTML, CSS): Developed a frontend interface for hotel management, integrating with backend systems for a seamless user experience.

Skills

Programming Languages : Python, C, C++, SQL

Machine Learning : TensorFlow, PyTorch, Scikit-learn, Deep Learning, Image Processing, NLP

Web Development : HTML, CSS, JavaScript, MERN Stack

Developer Tools : Docker, Matlab

Others : UI/UX Designing

Achievements

- 4th place in Algomania 2.0 Coding Competition in PES University.
- Ranked among the Top 10 teams of Nexus Hackathon named Neuronex Datathon (6th Position).
- Achieved 5th in CTF hackathon held by PES University.