

YASHASWINI R

yashaswinir99453@gmail.com | +91 9148712221 | [LinkedIn](#) | [Github Website](#)

Education

B.Tech - AIML(7.82 CGPA)

2022 - 2026

PES University - Bengaluru

Senior Secondary (96.67%)

2020 - 2022

Vidya Mandir, Bangalore

Work Experience

Software Development Intern

June 2025 - August 2025

Hindustan Aeronautics Limited (HAL), Bangalore

- Built an offline PDF search tool using FAISS and sentence embeddings for semantic content matching.
- Integrated Mistral LLM for fuzzy matching, improving accuracy and relevance of search results.
- Developed a lightweight web interface using Flask, HTML, and CSS for local document access.

Project

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

[Python, PyTorch, Mathplotlib, Numpy]

- Built a Transformer-based sequence-to-sequence model replacing traditional RNN/CNNs using self-attention and multi-head attention based on the "Attention Is All You Need" architecture.
- Designed a custom encoder-decoder with positional encoding, residual connections, and feed-forward layers.
- Achieved strong translation performance through parallelization and improved long-range context capture.

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

[Python, Pandas, NumPy, Scikit-learn]

- Developed an AI model to assess social media's effect on mental health using classification and causal inference techniques.
- Engineered features and applied statistical analysis ($p < 0.05$) to show late-night screen time impacts stress.
- Achieved 82.7% classification accuracy and extracted actionable behavioral insights.

Domestic Flight Booking System ([Github Link](#))

[Python, Flask, MongoDB, SQL, Cloud Computing, Microservices]

- Developed a microservices-based flight booking platform with modules for auth, search, and admin control.
- Enabled 100+ test bookings with real-time seat tracking via JDBC and MySQL.
- Streamlined workflows by 70% through modular and cloud-ready design.

Hotel Booking System ([C Link](#) and [C++ Link](#)) | DSA

Developed a modular hotel booking system using OOP in C++ and linked lists in C for dynamic room management and file-based storage.

Skills

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

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

Web Development : HTML, CSS, JavaScript, MERN Stack

Developer Tools : Docker, Matlab

Others : UI/UX Designing

Achievements

- 5th Place – CTF Hackathon, PES University
- 4 times - Distinction Awards – PES University
- 4th Place – Algomania 2.0 Coding Competition
- 6th Place – Nexus Hackathon, PES University