

# YASHASWINI R

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## Education

### B.Tech - AIML(8 CGPA)

PES University - Bengaluru

2022 - 2026

### Senior Secondary (96.67%)

Vidya Mandir, Bangalore

2020 - 2022

Aspiring student with a strong foundation in AI/ML, SQL, and data analytics. Skilled at bridging business needs with technical solutions through problem-solving and stakeholder collaboration

## Work Experience

June 2025 - August 2025

### Software Development Intern

Hindustan Aeronautics Limited (HAL), Bangalore

Designed and implemented a semantic search solution enabling faster retrieval of technical documents. Improved relevance of search results by 25% using Mistral LLM and NLP-based fuzzy matching. Analyzed search usage data to recommend optimizations, enhancing user efficiency.

## Project

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

[Python, PyTorch, Matplotlib, 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, relevant to BFSI payment workflows.
- 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

**Data Analysis & Visualization:** Python (Pandas, NumPy, Matplotlib), 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

## 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