Yash Agrawal

 github/yash4agr   linkedin/yash4agr   yashag.dev   yash4agr@gmail.com   +91 9340615467

EDUCATION

Indian Institute of Technology, Madras   2022 – 2026
B.S. Data Science and Application   *Current GPA: 8.89/10.0*

Courses: AI, DL, Machine Learning Techniques, Tools in Data Science , Programming, Data Structures & Algorithms, System Commands, Linear Algebra, Probability & Statistics

EXPERIENCE

UniteCare Software Solutions | *Software Development Intern*   Sep-Oct 2025
- Accelerated physician review by delivering AI-generated clinical summaries from unstructured patient visit notes.
- Scaled an asynchronous system on Azure Container Apps to process over 10,000 PDFs daily.
- Achieved over 95% test name accuracy for lab trend plotting by architecting a hybrid normalization service.

EVD Technology | *Freelance Developer*   July 2024
- Enhanced FBRef web scraping, boosting data reliability by 80% for player/team stats.
- Streamlined data ingestion using ChatGPT and PostgreSQL to enable natural language–driven session planning.
- Integrated Dockerized frontend, API, and action servers on AWS EC2, reducing deployment time by 50%.

PROJECTS

Psych-LLM | *Python, ChromaDB, meta-llama, pdfplumber*   Feb. 2025
- Engineered a RAG pipeline using ChromaDB and meta-llama, achieving 90% relevant document retrieval.
- Implemented PDF parsing and metadata enrichment, reducing processing time by 25%.
- Integrated LLM-based answer generation with source attribution, improving response transparency and research credibility.

Home Service | *Vue, Python, Flask, SQLAlchemy, JWT, Redis, Celery, GitHub*   Oct. – Nov. 2024
- Developed a Flask-Vue.js platform with JWT and role-based access, cutting API response time by 25% via Redis caching.
- Automated service monitoring with Celery and responsive dashboards for professional/admin with ChartJS.
- Containerized the full-stack application using Docker and Docker Compose, streamlining setup and ensuring consistent deployment across environments.

TuneIn - Music Streaming Application | *HTML/CSS, Python, Flask, GitHub*   Oct. – Dec. 2023
- Music Streaming Platform: Developed a web application for streaming music with frontend and backend integration.
- Implemented secure user authentication and data management with Flask-SQLAlchemy, reducing login issues by 20%.

SKILLS

Programming: Python, JavaScript, SQL, Bash
ML/DL: PyTorch, TensorFlow, HuggingFace, LangChain, ChromaDB, spaCy, NLTK
Data Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Tableau
DevOps: AWS EC2, Docker, GitHub Actions, Linux, NGINX, PostgreSQL
Frameworks: Flask, FastAPI, Vue.js, React, Node.js