Eswardeep Pujala

eswardeep-portfolio.netlify.app | eswardeeppujala@gmail.com | linkedin.com/in/p-eswar-deep | github.com/Eswar-deep
(469)-799-4098

Education

University of Texas at Dallas   Aug 2024 – May 2026
M.S. in Computer Science   **GPA: 3.58**
Coursework: Machine Learning(PyTorch, TensorFlow), Database Systems(MySQL), Data Structures & Algorithms(C++),
Probability and Statistics for Data Science(R language), Natural Language Processing, Advanced Operating Systems(C,
Linux), Big data Analytics

BITS Pilani, Goa Campus   2020 – 2024
B.E. in Electronics and Communication Engineering
Built a 5G antenna dual band as part of academic research.(MATLAB, CST)

Professional Experience

Zluri   Jul 2023 – Dec 2023
Full-stack Engineering Intern   INDIA

- Optimized database queries, caching strategies, and backend structures, improving overall backend performance by
30% and reducing API response times by **2 seconds** under heavy load by optimizing database structures and applying
object-oriented programming.
- Developed a data pipeline to seamlessly migrate data from **MongoDB** to **PostgreSQL** using cron jobs, ensuring **100%**
data consistency and improved scalability for large datasets.
- Collaborated with **cross-functional teams** in an Agile environment, leading to faster development cycles and high-
quality software releases.
- **Technologies**: Express.js, React.js, Node.js, PostgreSQL, MongoDB, JavaScript, REST APIs, Docker, SQL.

Yashodha Hospital   Jun 2022 – Aug 2022
Software Development Intern   INDIA

- Developed a cross-platform mobile app to monitor doctor hand hygiene compliance.
- Implemented automated alerts for hospitals when compliance scores drop below 78% (general) or 90% (critical care).
- **Technologies**: React Native, JavaScript, RESTful APIs, Firebase.

Technical Projects

Integbot – AI-Powered Chatbot *(Python, ChromaDB, Langchain, JavaScript)*   GitHub

- Won **Zluri's Gen-AI Hackathon against 50+ teams** by developing an AI chatbot with multi-system integration
capabilities.

OmniRoute–Dynamic Multi-LLM Router (Managed Execution) *(Python, FastAPI, SSE/WebSockets, Light-GBM, FAISS/pgvector, Redis, PostgreSQL, Docker/Kubernetes)*   GitHub

- Built a streaming multi-LLM router that selects the best model per prompt and **switches mid-response** across all
popular LLM's based on intent, format needs, and SLA; enforced **JSON contracts**, safety filters, and resilient retries.
- Trained a lightweight **routing policy** (embeddings + LightGBM/*contextual bandit*) on multi-model comparisons.

Job Alert Bot *(Python, Playwright, Telegram API, NoSQL)*   GitHub

- Built a Telegram bot to scrape and notify real-time job postings using custom filters and automated scheduling via
GitHub Actions, saving more than $45 and 20hrs per month.
- Designed a lightweight **NoSQL caching** to prevent duplicate alerts and enable future migration to cloud backends.

Additional Skills

- **Machine Learning & AI:** NLP (spaCy, NLTK), Hugging Face.
- **Big Data & Distributed Systems:** Hadoop, Spark.
- **Cloud & DevOps:** CI/CD, Shell Scripting, Agile, SDLC.
- **Soft Skills:** Leadership, Communication, Teamwork, Adaptability, Time Management.