Shree Joshi

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COURSEWORK

Artificial Intelligence (Ongoing)
Database Systems (Ongoing)
Probability & Statistics
Software Engineering
Object-Oriented Design
Operating Systems Concepts
Automata Theory
Programming Language Paradigms
Advanced Algorithm & Analysis
Systems Programming in UNIX
Digital Logic & Computer Design
Computer Architecture
Data Structures & Algorithms

PROGRAMMING LANGUAGES

Python, C, C++, MIPS, Java, JavaScript, TypeScript, Prolog, Racket, SQL, HTML/CSS

GENERATIVE AI

Langchain, Prompt Engineering, Agentic AI, RAG
Claude Code, Antigravity, GitHub Copilot
R2, TensorFlow, SKLearn, NLTK

SKILLS & TECHNICAL PROFICIENCIES

Frontend, Cloud, UI/UX, LLM Design
NumPy, Matplotlib, Selenium, React, Vite, Express, Handlebars, Node.js
Linux, Git, VSCode, Vim, Ren'Py, Docker, Microsoft Office

CERTIFICATIONS

CS50AI (Harvard OCW)
Prompt Engineering (Edureka) (Audited)
AWS Certified Cloud Practitioner
AWS Certified Solutions Architect – Associate (Ongoing)

LANGUAGES

English (First Language), Hindi (Fluent), Gujarati (Fluent), Korean (Intermediate), Japanese (Basic), French (Basic)

CLUBS

Women in STEM (WinSTEM)
AWS Cloud Club
Japanese Language Association (JLA)
Korean Language Club (KLC)
Comet Satellite Laboratory (CSL)

EDUCATION

UNIVERSITY OF TEXAS AT DALLAS — Dallas, TX
Bachelors in Computer Science — Graduating May 2027
Minor in Asian Studies

PROFESSIONAL PROJECTS

AskMahajan *2026*

Built a B2B SaaS app providing persistent-memory conversational RAG-enabled AI chatbots on Telegram and WhatsApp, with integrated inventory management and Human-in-the-Loop architecture.

- Implemented resilient business service with administration panel, inventory management, bespoke chatbot generation, ticketing, client data isolation on Cloudflare Workers, using React, Express, Node.js, R2, and Neon PostgreSQL.

Action AItem *2026*

Completed a mentored recreation of the live AI application SpeakXYZ with guidance from their original creator. Built AI-powered meeting intelligence features, including transcription, semantic search, AI chat, authentication, and automated meeting minutes, executive summaries, and action items.

- Implemented as a cloud-native full-stack application with React, Node.js, Cloudflare Workers, R2, and Neon PostgreSQL, implementing scalable APIs and data management.

evPanda *2025*

Lead developer of a full-stack EV marketplace evPanda, inspired by government initiatives promoting EV adoption & vehicle conversions, reducing annual vehicle operating expenditure by approximately 70% while lowering carbon emissions.

- **Phase 1:** Delivered 30+ responsive pages supporting vehicle buy/sell, retrofit, spare parts, repair services, advanced filtering, vehicle comparison, theming, and client/vendor RBAC.
- **Phase 2 (Present):** Expanding the platform with AI-powered capabilities (custom chatbot/voicebot, RPA, AI-enhanced 3D modelling) using React, Vite, TypeScript, Node.js, Express, PostgreSQL/PostGIS, GitLab CI/CD, Jest/Supertest, and AWS EC2 with Nginx.

ACADEMIC PROJECTS

Harvard CS50AI (Intro to AI with Python): *2026*

What I learned: Developed a strong foundation in AI & machine learning through 10+ hands-on projects implementing transformer architecture, deep learning, reinforcement learning, NLP/NLU, knowledge-based systems, probabilistic reasoning and search algorithms in Python.

- **Attention**: Leveraged a pre-trained BERT transformer to predict masked words in text with 97% accuracy, and visualized linguistic attention patterns across transformer layers.
- **Traffic**: Developed a deep learning computer vision-based convolutional neural network (CNN) model as used in self-driving vehicles for image classification of 43 categories of traffic signs using the GTSRB dataset, image preprocessing and TensorFlow/Keras.

Prompt Engineering (Edureka): *2025*

- Built ML models: multilingual sentiment analysis (Count & TF/IDF vectorization, bag of words, Naive Bayes/neural network), re-purchase prediction (random forest, grid search CV), handwritten digit GAN reconstruction/recognition, langchain RAG (web scraping, mpnet retriever, BART tokenizer/generator, Chroma vector store, GPT-2/3.5/4/Claude/LLAMA integration). Python stack: tensorflow, torch, langchain, transformers, pandas, numpy, matplotlib, nltk, sklearn, beautiful soup (bs4).

What's the time there: *2024*

- Crafted a website in AWS cloud for telling time at a location using JavaScript, Express, HBS and Node.js using online microservices TimeAPI & MapBox.

Practice projects: Multi-lingual sematic transliteration tool, Ren'Py Game, Auction & inventory system (Python, SQL), Parking management system (Python), Text manipulation tool (Java), Word-Search AI (Java).