Darshan Babu Shrestha

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Education

University of Texas at Arlington **Current – May 2027**
Bachelor in Computer Science, Minor in Data Science *Arlington, TX*
CGPA: 4.0 Dean's List - 2025 Spring (1 of 546 among 6000 Undergraduate Student)

Ullens IB World School **Aug. 2020 – May 2022**
International Baccalaureate Diploma Program *Lalitpur, Nepal*

Technical Skills

Languages: Python, Java, C, JavaScript, HTML/CSS, SQL
Frameworks: FastAPI, Flask, Streamlit, React, Vite, Git, Google Cloud, NetBeans, VS Code
Libraries: scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV, joblib
Concepts: Machine Learning, Data Preprocessing, Model Deployment, API Development, Object-Oriented Programming, Full-Stack Web Development, Cloud Deployment, Debugging, Data Analysis, Oracle VirtualBox
Soft Skills: Team Collaboration, Communication, Problem Solving, Mathematics

Experience

Web Developer Intern – TLT (Tomorrow's Leaders Today) **May 2025 – Current**
- *Remote*
  - Working on and maintaining company Website, also focusing on its security factor.
  - Collaborating with mentors to enhance accessibility of the company, learning through automation and innovation

AI4ALL Ignite Fellow **May 2025 – Current**
AI Fellowship Program for Social Good *Remote*
  - Selected as an AI4ALL Ignite Fellow to develop responsible AI and Machine Learning applications for real-world impact
  - Worked on inclusive AI and Machine Learning systems and received mentorship from industry experts in AI ethics and innovation

Projects

GeminEye - AI Navigation for Visually Impaired People — Python, FastAPI, Google TTS, OpenCV, Gemini API **March 20**
  - Hack Day UTA Winner 2025 — Best Use of Gemini API
  - Built a real-time AI assistant that uses voice, vision, and text to aid navigation for the visually impaired
  - Integrated Google Gemini API, Google TTS, and OpenCV for intelligent voice feedback

AI-Powered Slide-to-Lecture Audio System — Python, FastAPI, React, Google TTS, Gemini API **Feb 2025**
  - Built software to convert PDF/PPT slides into lecture videos with AI narration, AI Professor Chat-Bot, and AI Quiz Section
  - Implemented backend logic in FastAPI to extract and process text from uploaded files
  - Created frontend in React with dynamic PDF viewer, audio playback, and chatbot integration
  - Used Google TTS for natural-sounding audio generation and synchronized it with slide visuals

Customer Churn Prediction System — Python, Flask, Streamlit, scikit-learn **June 2025**
  - Developed a machine learning system to predict customer churn based on behavioral and demographic data
  - Built and trained models in Jupyter Notebook using scikit-learn, achieving high prediction accuracy
  - Created a Flask backend API to serve the trained model for real-time churn predictions
  - Designed an interactive Streamlit frontend to input customer details and display prediction results

AI-Powered Recipe Generator — Python, FastAPI, React, Google TTS, Gemini API **Feb 2025**
  - Built software to scan Fridge and generate Recipe with steps to make the Recipe that can be made from the items inside the fridge.
  - Implemented backend logic in FastAPI to extract and process picture
  - Created frontend in React to show list of recipe including steps to make them

Stock Management System —SQL, Java, NetBeans   **Nov 2022**
  – Developed inventory system for tracking stock levels and transactions with a GUI interface
  – Developed full secure Login and Sign-up page
  – Developed a Data-base to store all the data
  – Created 2 different user experience for company CEO and General Stake holder

QuizAI - AI-Powered Quiz Generator — Python, FastAPI, Gemini API   **April 2025**
  – Created a system to extract text from lecture slides and generate intelligent quizzes automatically using Gemini API
  – Built backend with FastAPI and integrated Gemini Flash for contextual question generation

Accomplishments

- Won Best Use of Gemini API at Hack Day UTA 2025 for building GeminEye, an AI-powered navigation system for the visually impaired

- Maintained a 4.0 GPA while balancing academic, internship, and personal development projects

- Earned 6+ professional certifications including: Google Crash Course on Python, IBM Python for Data Science, UC Davis SQL for Data Science, Debugging C Code, Git with VS Code, and Python Data Structures by the University of Michigan

Extracurricular

- Hack Day 2025 Winner – Best Use of Gemini API

- inSTEM @ UTA – Active Member

- Phi Theta Kappa – Active Member