

# Omar Faruq Shikdar

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## Career Goal

My goal is to master deep learning's complexities in order to design and implement smart systems that solve real-world problems, sharpening my skills as both a researcher and a coder.

## Education

East West University, BSc in CSE (Major in Data Science) June 2020 – Sept 2024  
• CGPA: 3.43/4.0

## Experience

AI Engineer, S.M Technologies, Betopia Group May 2025 – Present

Develop and deploy intelligent AI applications by building custom FastAPI backends and RAG systems with vector databases. Design and optimize complex LLM workflows using chaining, parallel processing, and few-shot prompting to maximize performance. Key projects include: a travel itinerary AI that generates 30-day plans, where parallel processing cut generation time from 4+ minutes to 40 seconds; specialized learning tools for ADHD and dyslexia; a language learning app; and a voice-command task manager with natural-language querying. Also built a multi-modal image, audio, and video generation platform.

## Publications

Classifying Nutritional Deficiencies in Coffee Leaf	IEEE Conference ICCCT
Breast Cancer Detection from Ultrasound Image Using Deep Learning	Springer Conference ICDMIS
Water Melon Disease Detection using CNN	IEEE Conference RAAICON
PCOS detection from ultrasound images using CNN	IEEE Conference RAAICON
Kidney Stone detection from ultrasound images using Transfer Learning	IEEE Conference RAAICON
Life expectancy after thoracic surgery prediction using ML with oversampling	IEEE Conference ICCIT
Enhancing Tea Leaf Disease Recognition with Attention Mechanisms	Springer Conference ICCNET
Evaluating Tea Leaf Quality with Deep Learning	Springer Conference ICCNET

## Projects

Donna Life   An AI powered voice assistant for task management	code demo
Study Buddy   An AI-powered learning companion for people with ADHD	code demo
Dream Canvas Art   An AI art generation platform image, video and audio	code demo
Manifex   Helping people with Dyslexia Learn	code demo
E-Commerce Support Bot   Provides real-time product information to customers	code demo
Fluent Faster   Language Learning Applications	code demo
Vacay Breeze   An AI-powered travel planner	code demo

## Technologies & Skills

**Languages:** Python, C++, C, Java, PHP, SQL

**Tools & Libraries:** Pandas, numpy, seaborn, Scikit learn, Tensorflow, PyTorch, nltk, transformers, Hugging Face, FastAPI, Docker, Nginx, Redis, Postman, nginx, Termius, LangGraph, GitHub, Chroma DB, Postgress, MongoDB

**Core AI concepts:** Machine Learning, Supervised Learning, Classification, Regression, Deep Learning, Transfer Learning, Natural Language Processing, Computer Vision, Explainable AI, Retrieval-Augmented Generation

**Additional Skills:** API Development, Deployment (GCP, Hostinger, AWS), CI/CD (Github actions)

## Language Proficiency

IELTS (Listening-8.5, Reading-8.0, Writing-7.0, Speaking-7.5) Overall-8.0