

ANAKSHA JANKI

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Summary

Dynamic Computer Science undergraduate at FAST National University with comprehensive full-stack development experience, specializing in AI-integrated web applications using Next.js, MongoDB, and advanced APIs including Hugging Face and Gemini 2.5 Flash. Proven expertise in workflow automation through n8n, sentiment analysis implementation, and data visualization for analytics dashboards. Certified in Machine Learning (Stanford) and Generative AI (DeepLearning.AI), with hands-on experience in prompt engineering, LLM integration, and scalable application deployment via Vercel CI/CD. Passionate about developing innovative AI solutions that bridge technology and human-centered design.

Education

FAST National University of Computer and Emerging Science
BS - Computer Science

Karachi, Pakistan
08/2022 - 06/2026

Skills

Programming Languages: Python, C/C++, JavaScript

Technologies: HTML, CSS, Flask, MongoDB, Supabase, TensorFlow, Scikit-learn, Trello, RESTful APIs, Git Version Control, Vercel (CI/CD)

Software Engineering: Software Development Life cycle, Requirements Analysis, Unit Testing

Soft Skills: Problem-Solving, Player, Analytical Problem Solver, Quick Learner, Verbal and Written Communication, Team Collaboration

Others: Data Structures And Algorithms, Operating Systems, Object-Oriented Programming, Machine Learning, Deep Learning

Experience

Nexium

Karachi, Pakistan

Next Gen Intern

07/2025 -08/2025

- Developed a Quote Generator and Blog Summariser web apps using Next.js, JavaScript, and ShadCN UI, featuring topic-based retrieval, web scraping, AI-like summarization, and Urdu translation with Supabase/MongoDB integration, deployed on Vercel with CI/CD.
- Built a Mental Health Tracker using Next.js and MongoDB, integrating n8n workflow automation, Hugging Face API for sentiment analysis, and Gemini 2.5 Flash API for personalized mood log suggestions, featuring log history management and 30-day mood analytics charts.

Projects

Power Ludo AI

03/2025 - 05/2025

An enhanced Ludo game with AI-driven gameplay and puzzle mechanics

- Developed a Python-based board game using Tkinter and Pygame, introducing power tiles such as Skip Turn, Instant Capture, Immunity and dynamic puzzle-based captures such as Sudoku, Word Unscramble with AI-adjusted difficulty.
- Led a team of three as the project leader, designed and implemented the AI player logic for the Blue team using a minimax algorithm with heuristic-based decision-making, achieving a 60-70% win rate against human players.

Stock Price Prediction using Twitter Sentiment Analysis

04/2025 - 05/2025

A machine learning system predicting stock prices using Twitter sentiment and historical data.

- Developed a Python-based ML system to predict hourly stock prices for petroleum companies using Twitter sentiment and PSX data from IEEE's "Dataset for Stock Market Prediction," leveraging pandas and sklearn.
- Improved accuracy to 69% by tuning XGBoost and LSTM models; collaborating to assign numerical scores to key tweet words for sentiment analysis.

Digital Art Gallery

09/2024 - 12/2024

A responsive digital art gallery with auction and bidding features

- Built a Flask-based web application with RESTful APIs and MySQL, enabling real-time auctions and data processing with Python and pandas.
- Led a team of 3 developers, managing backend development of artist and artwork modules, ensuring scalable code and robust data integration

Certifications

- Machine Learning Specialization** (Stanford Online via Coursera, taught by Andrew Ng)
 - Mastered supervised and unsupervised learning, neural networks, and model optimization using Python and TensorFlow, applying predictive modeling to real-world datasets.
- Generative AI with Large Language Models** (DeepLearning.AI and AWS via Coursera)
 - Gained expertise in LLM lifecycle, transformer architecture, fine-tuning, and deployment using Python, TensorFlow, and AWS tools, with hands-on labs in prompt engineering and RLHF.