

Sanaullah Turab

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SUMMARY

Third-year BS Artificial Intelligence student and Machine Learning Engineering Intern at FlyRank AI, holding Machine Learning and Deep Learning Specializations from Stanford University / DeepLearning.AI, with MLOps Specialization from Duke University in progress. Two years of full-stack MERN experience across multiple companies, combined with applied AI work spanning computer vision, neural networks, search algorithms, and data analysis.

EXPERIENCE

Machine Learning Engineering Intern Jul 2026 – Present

FlyRank AI

Remote

- Engineered preprocessing pipelines across 4+ internal datasets, cutting model iteration time by 15%.
- Benchmarked 5+ candidate models against production criteria, surfacing performance gaps that shaped pre-deployment decisions.
- Partnered with a 6-person cross-functional engineering team to integrate ML components into core production systems.

Machine Learning Engineer Aug 2025 – Sep 2025

Arch Technologies

Islamabad

- Optimized machine learning models across 3 data challenges, improving prediction accuracy by 8%.
- Overhauled the data preprocessing and evaluation workflow, cutting experimentation turnaround time by approximately 20%.

Frontend Developer Intern (Concurrent) May 2025 – Jul 2025

DevelopersHub Corporation & YoungDev Intern

Islamabad

- Engineered 10+ production-ready React.js components across two internships, boosting page-load performance by 10% and ensuring cross-browser compatibility.

Web Developer Intern Dec 2024 – Mar 2025

Securely Innovations (Pvt.) Ltd.

Islamabad

- Spearheaded development of CodeConvo, a full-stack discussion forum supporting 100+ test users, owning the project from architecture through deployment.
- Implemented authentication and real-time discussion features using React and Python, cutting message latency by 20% while coordinating a 3-developer team across 4 sprints.

Web Developer Intern Feb 2024 – May 2024

Charisma Software (Pvt.) Limited

Islamabad

- Built 10+ UI components alongside senior developers in a live commercial codebase, applying production-grade code review and performance-optimization practices.

Full-Stack Developer (Freelance) May 2020 – Present

Fiverr

Remote

- Delivered 30+ custom full-stack projects (e-commerce, portfolio, and business sites) for global clients using React, Node.js, and Shopify APIs, maintaining a 4.9-star rating across 50+ orders.

PROJECTS

Bijli Bachao – AI Electricity Bill Analyzer | *Python, Google Gemini Vision API, Google Cloud Run*

- Engineered an AI-powered electricity bill analyzer for Pakistani consumers during the AISeekho program (Google & Government of Pakistan initiative), reaching 85% parsing accuracy across 50+ scanned utility bills using Gemini's vision capabilities.
- Deployed end-to-end on Google Cloud Run, handling image input, parsing, and consumption analysis for 20+ test users.

Global Lung Cancer & Air Quality Trend Analysis | *Python, pandas, NumPy, statistical testing*

- Analyzed lung cancer trends across 27 European countries alongside PM2.5 air pollution data from 133 countries (2014–2024), identifying a statistically significant positive correlation ($p < 0.05$) between pollution levels and cancer incidence.
- Architected a complete preprocessing and statistical-testing pipeline, producing 8 interactive visualizations of the findings.

Connect 4 AI | *Python, Pygame, Minimax, Alpha-Beta Pruning*

- Developed a Connect-4 game with an AI opponent using Minimax with Alpha-Beta Pruning and heuristic board evaluation, achieving a 70% win rate against a baseline player and cutting search time by 40% versus unpruned minimax.
- Designed a dark-themed GUI with drop animations, structured across separate modules for game logic, AI decision-making, and rendering.

RaceBox – F1 Race Intelligence Platform | *FastAPI, Python, pandas, NumPy, Chart.js*

- Architected a full-stack F1 analytics platform with a FastAPI backend and Chart.js dashboard, projecting championship outcomes across 20+ historical races via Monte Carlo simulation with 75% projection accuracy.

CERTIFICATIONS

Machine Learning Specialization – Stanford University & DeepLearning.AI (*Completed, June 2026*)

Deep Learning Specialization – Stanford University & DeepLearning.AI (*Completed, July 2026*)

MLOps Specialization – Duke University (*In Progress, Expected August 2026*)

TECHNICAL SKILLS

Core AI & Machine Learning: Machine Learning, Deep Learning, Artificial Neural Networks, Convolutional Neural Networks (CNN), Regression Analysis, Classification Algorithms, Predictive Modeling, Model Optimization, TensorFlow, Keras, Scikit-Learn, NumPy, Pandas, Google Gemini Vision API

Software & Full-Stack Engineering: Python, JavaScript (ES6+), C++, HTML5, CSS3, MERN Stack, React.js, Next.js, Node.js, Express.js, FastAPI, Django, Tailwind CSS, REST APIs, API Development & Integration, MySQL, MongoDB, Data Structures, Object-Oriented Design, Git, GitHub

Tools & Platforms: Google Cloud Run, Vercel, Linux/Ubuntu

LEADERSHIP & ACTIVITIES

Team Lead, GradientGang – Co-led a three-person AI engineering team for an AMD-sponsored hackathon, building and shipping a project under competition time constraints.

EDUCATION

Bahria University

Islamabad, Pakistan

Bachelor of Science in Artificial Intelligence – CGPA: 3.45/4.0

Sep 2024 – Dec 2028 (Currently 3rd Year)

- Relevant Coursework: Artificial Intelligence, Machine Learning, DBMS, Data Communication & Networking, Software Engineering