

Junaid Afzal

Machine Learning Engineer

Passionate ML Engineer dedicated to crafting impactful solutions that enrich lives. Deeply committed to open source, actively contributing to the community to foster collaborative innovation. Enthusiastically building AI-driven tools that bridge technology with a human touch for a brighter future.



✉ Junaid729710211597@gmail.com

🐙 github.com/ImJunaidAfzal

🌐 linkedin.com/in/ImJunaidAfzal/

📄 docs.microsoft.com/users/imJunaidAfzal/

📞 0313-4594790

🏠 hackerrank.com/ImJunaidAfzal

🤖 huggingface.co/imjunaidafzal

📖 stackoverflow.com/users/15276432

LANGUAGES

- English
- Urdu

INTERESTS

- AI
- Gaming
- Crypto
- NFTs
- Virus
- Open Source
- Chess
- Research
- Coding

SKILLS

- Python
- Generative AI
- Machine Learning
- Deep Learning
- Prompt Engineering
- GPT-4 / ChatGPT
- Stable Diffusion
- ControlNet
- LoRa / Dreambooth
- Dall-e
- AI Art / AI Avatars
- AI Agents
- LLMs
- AI Agents
- Langchain
- Fine-tuning LLMs
- Serverless Deployments
- Chatbots
- Github
- OpenAPI
- GCP
- Huggingface
- Object Detection
- OpenCV
- Gradio
- AWS Lambda
- AWS EC2
- AWS ECR
- S3 Bucket
- Signal Processing
- Data Engineering
- ETL
- Speech recognition
- Text To Speech
- Speech to Text
- Transformers
- Diffusers
- Image Processing
- TensorFlow
- Pytorch
- Computer Vision
- NLP
- Web scrapping
- Problem Solving
- Linux
- Docker
- CUDA
- FAST APIs / Flask
- Postgres
- MongoDB

WORK EXPERIENCE

- ❖ **Machine Learning Engineer** **(07/2022 – Present)**
Kodezi *Remote*

Created POCs which helped raise **\$40,000** in Angel Investment and **\$800,000** in Pre-Seed Round. Serverlessly deployed sophisticated pipelines with Finetuned **OpenSource and Closed Source LLMs**. Managed and worked with a distributed team over 4 countries.

- ❖ **Machine Learning Engineer** **(07/2022 – 1/2024)**
Ekkel AI *Lahore*

Build AI models from scratch and help the different components of the organization (such as product managers and stakeholders) understand the results. Build data ingestion and data transformation infrastructure. Build APIs and handled deployment of AI infrastructure.

- ❖ **Python Developer** **(10/2021 – 06/2022)**
Arhamsoft *Lahore*

Establish machine learning workflows for training, testing, and deploying object detection models to production. Develop APIs for model serving. Effectively manage the codebase and ensure ongoing quality maintenance.

- ❖ **ML Engineer** **(11/2019 – 9/2021)**
Freelance *Remote*

Deliver AI services globally and develop a diverse range of AI products leveraging GenAI, Large Language Models (LLMs), stable diffusion, computer vision, Natural Language Processing (NLP), and various other cutting-edge technologies.

EDUCATION

BS Computer Science **Government College University (Lahore)**

Studied core CS concepts, including linear algebra, calculus, databases, machine learning, and deep learning. Executed a notable Final Year Project, "**Fictor: Face Predictor**" employing generative AI to create youthful images of children based on their parents' facial features.

(2017-2021)
CGPA: 3.27

CERTIFICATIONS

Operationalizing LLMs on Azure

Issued By: Duke University

(May 2024)

URL: <https://www.coursera.org/account/accomplishments/records/JK5KM9D3QSGB>

Advanced Data Science with IBM Specialization

Issued By: IBM

(April 2024)

URL: <https://www.coursera.org/account/accomplishments/specialization/VPRV6FWR56XC>

Advanced Machine Learning and Signal Processing

Issued By: IBM

(December 2023)

URL: <https://www.coursera.org/account/accomplishments/certificate/A4BX35Y27DXZ>

Deploying Machine Learning Models in Production

Issued By: DeepLearning.AI

(November 2023)

URL: <https://www.coursera.org/account/accomplishments/verify/GPSK7X3WWHBW>

IBM Machine Learning Specialist – Associate

Issued By: IBM

(March 2022)

URL: www.credly.com/badges/b96ad0ce-bc76-45c6-9bda-7118591824ad

Python (Intermediate) Certificate

Issued By: HackerRank

(September 2020)

URL: www.hackerrank.com/certificates/a3ce71ad141f

Scientific Computing and Python for Data Science

Issued By: WorldQuant University

(December 2019)

URL: wqu.thedataincubator.com/certificate/6280780879757312

PROJECTS

Profile Photos AI

Revolutionizing AI Avatar Generation: Leveraging User Image Fine-Tuning and Advanced Prompt Engineering. Achieved remarkable results in crafting personalized avatars, lifelike portraits, and even celebrity selfies. This groundbreaking approach redefines digital identity creation, showcasing exceptional expertise in AI-driven visual synthesis.

WordRocket

Engineered a versatile AI platform capable of generating blogs in various styles, crafting professional essays, and leveraging real-time streaming to eliminate user wait times. Integrated tools encompass YouTube-to-essay conversion, seamless Amazon Affiliate blog generation through product URLs, and an extensive range of features. This all-inclusive solution showcases an adept fusion of AI capabilities to streamline content creation and enhance user experience.

LunchBreak

Created a pipeline which used LLMs to generate long form content. Developed a data ingestion system which fed verified resources to the AI to reduce hallucinations. Built a system which utilizes the properties of perplexity and burstiness in text which incorporates humanizing elements in text making it less prone to being flagged as AI generated.

AI Financial Advisor

Crafted an AI-powered chatbot tailored for investment management, offering real-time financial market insights, live updates, currency conversion, and comprehensive data on forex and cryptocurrency markets. This dynamic solution empowers users with accurate and up-to-the-minute information, showcasing proficiency in AI-driven financial assistance and market analysis.

Pro Prompter

Optimizing Diffusion Simulations: Developed a highly efficient prompt for stable diffusion simulations, enabling precise modeling of particle dispersion. Additionally, formulated a comprehensive set of negative prompts to enhance model robustness. This innovative approach facilitates accurate and stable diffusion predictions, underscoring a profound understanding of complex physical processes and advanced prompt engineering.

Careerli

Empowering Career Advancement through Expert Resume Generation: Created a sophisticated platform that crafts high-quality, professional resumes adhering to industry standards and tailored to individual user data. Integrated advanced tools, including real-time auto-completion and intelligent suggestions, to streamline the resume-building process. This innovation showcases a deep understanding of user-centric career development and cutting-edge AI-driven assistance.

Yohvi

Elevating Instagram Engagement with a Strategic Automated Bot: Strategically harnessed automation for diverse actions, including posting media, engaging with stories, liking posts, and leaving comments. Overcoming intricate challenges such as account blocks and bot detection, this achievement underscores profound expertise in social media optimization and AI-driven user interactions.

Jobify

Engineered a comprehensive job scraping solution involving multiple website sources. Designed to autonomously extract job listings, the system seamlessly integrates with a bespoke MongoDB server for data storage. Automated scraping processes ensure consistent updates, demonstrating adeptness in web data aggregation, database management, and hands-free operation.

WriteNGo

Developed and deployed an extensive suite of AI tools encompassing SEO optimization, automated blog creation, Google Ads management, Amazon product description generation, LinkedIn Ads assistance, email content generation, and an array of over 60 diverse functionalities. These tools streamline and enhance various digital marketing and content creation processes, showcasing a deep understanding of AI integration for multifaceted business needs.

Sweply

Elevating Online Presence in Arabic: Designed specialized Google Ads and SEO tools for the Arabic language, facilitating enhanced visibility. Engineered an SEO meta generator and product description tool meticulously optimized for superior SEO ranking. Overcoming the challenge of character constraints in advertising platforms, the project showcases prowess in linguistics, SEO, and efficient content management.

Video Object Detection

Build Object Detection model to detect and classify 600+ classes. Also detect if any celebrity is present in image. Cooperate with team to build APIs of model using Django and deploy on Amazon EC2.

Resume Parser

Cooperate with teammates to prepare and maintain multiple datasets. Build and optimize different model for analyzing resume. Cooperate with Web-team to fix and update response and queries formats.

NFT-Marketplace

Cooperate with teammates to build APIs for NFT-Marketplace. Build user registration and login system using JWT. Build APIs for users personal and public activities. Optimize code format according to PEP8 and flake8. Write test cases for User APIs.

PERSONAL PROJECTS

Video To Video Transformation

Video Style Transformation Wizardry: Unleashing the power of Stable Diffusion and ControlNet, this cutting-edge system seamlessly transforms videos into diverse styles such as anime, cyberpunk, and GTA-5, offering an unparalleled experience in visual creativity.

