

ANUSHA GURUPRASAD

Jersey City, New Jersey, USA, 07306 | 347-216-2098

anusha.guruprasad14@gmail.com | [linkedin.com/in/anusha-guruprasad](https://www.linkedin.com/in/anusha-guruprasad) | github.com/AnushaG-P | anushag-p.github.io

SUMMARY

Data Scientist with 4+ years of experience deploying end-to-end AI systems at scale using Python, PyTorch, Huggingface, and AWS. Delivered production-grade recommendation engines, real-time Computer Vision pipelines, and RAG-powered LLM applications. Proven impact across personalization, anomaly detection, and time-series modeling in healthcare and media, with strong experience in model optimization, MLOps, and cross-functional delivery in startup environments.

EDUCATION

Pace University
Master of Science (MS) in Data Science - GPA: 3.66/4.0

New York City, New York
May 2024

SKILLS

Languages & Deployment Tools: Python, SQL, Java, Git, Docker, Jenkins, Real-time APIs, GPU Inference, ELK Stack
Machine Learning & AI: PyTorch, Huggingface, Scikit-learn, LangChain, GPT-4, RAG, Vector Search (FAISS, Pinecone)
ML Engineering: CI/CD Automation, MLFlow, MLOps, Model Monitoring, FastAPI
Cloud & Data: AWS (EC2, S3, SageMaker, IAM, CloudWatch), PostgreSQL, Redis, Kafka
Visualization & Analysis: Power BI, Tableau, Streamlit, Excel

PROFESSIONAL EXPERIENCE

Arco Data Design Inc., New York, New York
Data Engineer

Since February 2025

- Engineered Python-Django pipelines for 10M+ music records, optimized with **Redis & PostgreSQL** for scalable personalization.
- Built metadata tagging and recommendation systems for audio content to enable **ad-tech-driven targeting** and **royalty compliance**.
- Delivered enrichment **GitHub** pipelines powering content delivery for 3M+ users, boosting engagement by 18%.

Shoptaki, New York City, New York
Senior Data Science Developer

September 2024 - April 2025

- Developed **XGBoost** time series forecasting models, improving **financial forecasting** accuracy by 27%, and built executive-level dashboards using **Tableau** to surface marketing and engagement insights.
- Implemented ML automation with **AWS SageMaker** in partnership with cross-functional teams, resulting in cost savings through personalization.
- Forecasting model reduced campaign underperformance by 30%, developing scalable AI systems with Docker and AWS SageMaker.

Pace University, New York City, New York
Research Assistant (Research Paper)

November 2023 - July 2024

- Analyzed over **10,000 genomic datasets** to identify host-pathogen interactions in Rafflesia-Tetrastigma species.
- Developed automated **R pipelines to run LCMS/XCM analysis**, reducing bioinformatics processing time by 68%.
- Visualized metabolite dynamics with Tableau and Excel, resulting in a peer-reviewed publication and ASPB Conference presentation.

Shoptaki, New York City, New York
Machine Learning Developer

June 2023 - September 2023

- Mentored a 10-member Machine Learning** team to build clustering and regression models that enhanced B2B personalization.
- Deployed **PyTorch** for recommendations and **BERT models** with legal doc analysis, automating **risk flagging**.
- Worked with business clients to interpret data insights retrieved from PowerBI dashboards and drive campaign ROI improvements.

Unisys, Bangalore, India
Associate Application Developer

September 2020 - July 2022

- Maintained scalable Java-based AWS travel platform with Oracle backend, handling 5K+ daily transactions & achieving 99.7% uptime.
- Implemented **CI/CD pipelines using AWS CodePipeline** and **CodeBuild** to automate deployment of ticketing module microservices on **EC2**, enabling real-time fare calculation, booking confirmation, and refund processing.
- Automated ETL pipelines streamlined analytics and reporting, reducing manual work and improving data delivery speed by 40%.

PROJECT

- SmartResume ATS Scoring & Profile Analyzer:** Engineered a Streamlit app leveraging Python, **Hugging Face**, and advanced NLP to parse and score resumes against job descriptions using curated AI/ML skill matching, boosting candidate evaluation accuracy. Integrated LinkedIn and GitHub profile analysis and a **Retrieval-Augmented Generation (RAG)** chatbot for personalized feedback, demonstrating end-to-end application of machine learning and LLMs in real-world HR tech.

CERTIFICATIONS & PUBLICATIONS

- Morgan Stanley Hackathon Winner:** Developed a **neural network**-driven platform for food redistribution, reducing waste by 40% and optimizing deliveries using real-time stock data, powered by **MongoDB**.
- Publication:** *Microbes and Metabolites of Tetrastigma* (SSRN) — Applied data science to analyze metabolomic interactions; achieved 92% model accuracy across 10K+ datasets.
- Certifications** - AWS Certified AI Practitioner ([Link for it](#)), AWS ML Associate (in progress)