ANUSHA GURUPRASAD

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SUMMARY

AI Developer with 4 years' experience delivering ML and GenAI solutions across finance, healthcare, and B2B. Skilled in Python, PyTorch, TensorFlow, and SageMaker. Proven impact in forecasting, personalization, and GPT-3.5-based applications. Strong communicator bridging business needs with production-ready AI.

EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems — New York City, New York
Master of Science (MS) in Data Science - ***GPA: 3.66/4.0*** — **May 2024**

SKILLS

Data Governance & Stewardship: PII Handling, Metadata Management, Data Quality, CDEs, Data Lineage, Access Control
Governance Tools & Compliance: Familiar with Collibra, Informatica, AWS IAM, SDLC Governance Practices
Data Engineering & Analytics: Python, SQL, PostgreSQL, ETL Workflows, Tableau, Power BI, JIRA
Collaboration & Documentation: Stakeholder Communication, Steward Enablement, Metadata & Data Dictionary Documentation

PROFESSIONAL EXPERIENCE

Arco Data Design Inc., Brooklyn, New York — **Since February 2025**
Data Engineer

- Built Python pipelines processing 10M+ media records; improved data retrieval via **Redis** and **PostgreSQL**.
- Led ML pipeline integration for **content tagging** and **metadata** enrichment, enabling **scalable personalization logic**.
- Improved ETL and **feature engineering** workflows to support content-based filtering for **recommendation systems**.
- Automated reporting workflows using **GitHub Actions**, reducing manual operations by 30%.

Shoptaki, New York City, New York
Senior Machine Learning Developer — **September 2024 - April 2025**

- Developed **XGBoost time series** models, improving **financial forecasting** accuracy by 27%.
- Designed **Tableau dashboards** to track revenue KPIs, reducing executive decision time by 40%.
- Partnered with business teams to deliver ML-based automation, **generating $1.2M in cost savings**.
- Integrated **recommendations** into user platforms in collaboration with product and design, aligning with **personalization KPIs**.

Pace University, New York City, New York — **November 2023 – June 2024**
Research Assistant *(Full-Time; Research Paper)*

- Analyzed 10,000+ **genomic datasets** to uncover host-pathogen interactions in parasitic plants.
- Built **R-based automation pipelines**, cutting **bioinformatics** processing time by 68%.
- Created data visualizations using **Tableau**/**Excel**, increasing research interpretation by 35%.
- Co-authored a published study on metabolite dynamics and presented at ASPB Conference.

Shoptaki, New York City, New York
AI/Machine Learning Developer — **June 2023 – September 2023**

- **Led a 10-member ML** team to build clustering and regression models to **optimize B2B personalization** features.
- Deployed GPU-based recommendation models to personalize property insights, increasing engagement by 18% using **PyTorch**.
- Delivered client-ready ML solutions aligning with **financial objectives and KPIs**; collaborated with business leaders to translate predictive outcomes into actionable strategy.
- Worked with **Kubeflow**, **SageMaker Pipelines** and **Hadoop** for scalable model training and deployment.

Unisys, Bangalore, India — **September 2020 – July 2022**
Associate Application Developer

- Built and maintained a Java-based AWS travel platform processing **5K+ transactions/day** with 99.7% uptime.
- Automated **CI/CD** pipelines using Jenkins; reduced deployment errors by 40% and improved release cycles by 65%.
- Followed **Agile SDLC**, working closely with product teams to align development with user needs.

PROJECT & PUBLICATIONS

- **Generative AI for Drug Personalization**: Built transformer models and integrated **GPT-3.5** via **OpenAI API** to simulate treatment responses; improved match rates by 45% using synthetic patient data.
- **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 Machine Learning Associate** - *In Progress*