Anusha Sivakumar

Data Scientist + Biomedical Engineer | +1(504)758-2512 | Amherst, MA | anushanikila.s@gmail.com | LinkedIn | Portfolio

SKILLS

Languages: Python, R, LOCAL, Bash, JavaScript, TypeScript, MATLAB
Front-End & Back-End: React, Next.js, HTML, CSS, TailwindCSS, Node.js, Express, Django, Flask
Data Science & Visualization Tools: Predictive Modeling, Statistical Analysis, Data Wrangling, Tableau, Power BI, Excel
Database & Version Control: SQL - MySQL, PostgreSQL. NoSQL - MongoDB, Redis, Git, Github, Github Actions
Cloud & Devops: Docker, AWS (S3, EC2, Lambda, DynamoDB, RDS), Vercel, Databricks, Snowflake, Kafka, GCP, Azure
Libraries & Frameworks: Pandas, Numpy, Scikit-learn, TensorFlow, Keras, PyTorch, NLTK, spaCy, Matplotlib

EXPERIENCE

Product Owner/Data Scientist, ZTensor Inc., *Amherst, MA* ***Nov 2025 – Present***

- Agentic AI Development: Architecting autonomous agents leveraging LangGraph for multi-step user verification and scam detection on a high-traffic social platform.
- Trust & Safety Engineering: Developing NLP and behavioral biometrics models to mitigate identity theft and "catfishing" via real-time data cross-referencing.
- Secure Infrastructure: Leveraging AWS and MLOps to build scalable data pipelines for decentralized system integration and high-integrity onboarding.

Domain Data Analyst (Internship), CareCentra Inc., *New York City, NY* ***Feb 2024 – Dec 2024***

- Behavioral AI: Optimized AI-driven nudging interventions for maternity, respiratory and cardiac programs using Predictive Modeling, increasing patient adherence by 90% across clinical programs.
- Data Orchestration: Prototyped real-time pipelines for health data ingestion and model feedback loops using AWS Lambda and Azure Data Factory.
- Feature Engineering: Refined regression-based models through advanced statistical feature selection, significantly increasing model precision and propensity scores.

Freelance Software Developer, 100Devs, *Boston, MA* ***May 2021 – Apr 2024***

- Full-Stack Optimization: Modernized legacy systems and engineered scalable web solutions using React and Node.js, increasing platform functionality and speed by 100% through performance tuning.
- Data-Driven Design: Boosted client engagement by 95% by implementing analytics-informed UI/UX refinements and iterative A/B testing frameworks.

Strategy & Operations Associate, Bhoomi Inc., *San Francisco, CA* ***Mar 2019 – Jun 2020***

- Growth & Revenue Ops: Architected data-driven pipelines to identify GTM expansion opportunities from customer metadata, resulting in an 80% increase in sales through optimized lead scoring and partner attribution.
- KPI Visualization: Managed business performance tracking through Power BI dashboards to optimize cross-functional marketing campaigns, alongside ad sales marketing team and PMs.

Clinical Software Specialist, Brainlab Inc./UCSF Medical Center, *San Francisco, CA* ***Nov 2017 – Mar 2019***

- Technical Consulting: Provided real-time software consultation for image-guided neurosurgery, fostering strategic partnerships, driving a 45% regional growth in clinical software adoption and multi-year onsite tech support deal..
- Predictive Modeling: Architected predictive models for disease prognosis aggregating longitudinal health data for complex brain cancers (GBM, Glioma etc.) to drive high-precision clinical decision-making.
- Systems Integration: Managed Salesforce CRM and cloud platforms (Quentry), executing server migrations to maintain HIPAA/FDA compliance and system interoperability.

EDUCATION

University of Massachusetts - Amherst, MA ***Sept 2024 - May 2025***
Master of Science in Data Science & Analytics (Specialization: ML/AI), *4.0 GPA*
Tulane University ***Aug 2013 - May 2017***
Bachelor of Science in Biomedical Engineering (Premed Track), *3.96 GPA*

PROJECTS & RESEARCH

Evaluating Large Language Model Preferences Under Controlled Indifference - UMass Amherst ***Feb 2025 – Present***
Evaluating Agentic AI systems and LLM pronoun bias in hiring decision-making; publication currently in review.
Voice-to-Text Q&A Chatbot - Integrated RAG with AWS SageMaker and Transcribe for real-time, GPT-powered voice responses.
Predictive Modeling for Healthcare Adherence - CareCentra Internship - Developed patient adherence prediction models using logistic regression and gradient boosting, achieving significant accuracy gains for targeted health interventions.

CERTIFICATION

Cloud Engineering with Google Cloud Specialization ***Apr 2020 – Present***