NIKHIL NAGESHWAR INTURI

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SENIOR BIOINFORMATICS & COMPUTATIONAL SCIENTIST - ADME-TOX & EARLY DRUG DISCOVERY

SUMMARY

PhD-level bioinformatician with 8 years across biotech, CRO, and academic labs translating multi-omics, pathology, and ADME-Tox data into predictive models and decision-ready dashboards. Expert in Python/R, AWS HPC, and statistical learning (regression, multivariate, network, deep learning). Record of leading cross-functional teams to design custom pipelines and ML solutions that reduce discovery cycle times by >50% and uncover high-value therapeutic targets.

CORE SKILLS

- NGS & High-Throughput Data: WGS/WES, bulk & single-cell RNA-seq, spatial transcriptomics, proteomics, metabolomics
- Statistical & ML Methods: Linear/Mixed Models, Regularized Regression, Random Forest, XGBoost, GNNs, Generative AI (LLMs)
- Programming & Tools: Python (NumPy, Pandas, SciPy, scikit-learn, PyTorch), R (tidyverse, Bioconductor), SQL, Shell; AWS Batch, Slurm HPC
- Pipeline & DevOps: Nextflow, Snakemake, Docker/Singularity, Kubernetes, GitLab CI, Terraform
- Visualization & Reporting: Power BI, Tableau, Plotly Dash, Streamlit, JupyterLab

EXPERIENCE

Senior Bioinformatics & Data Scientist - Center for Advanced Pain Studies, UT Dallas | Feb 2023 - Present
- Designed Bayesian network models integrating scRNA-seq, lipidomics, and histopathology to predict neuro-tox profiles of candidate compounds; improved early de-risking accuracy by 35%.
- Built a containerized Nextflow pipeline (WGS->GATK, RNA-seq->STAR/DESeq2) on AWS; processed 200 TB across TCGA, GTEx, DepMap; cut compute cost 42%.
- Led cross-site collaboration (McGill, WashU, UPenn) standardizing spatial-omics analytics; reduced turnaround from weeks to days.

Full-stack Data Scientist - Aganitha Cognitive Solutions | Jun 2022 - Nov 2022
- Implemented AWS-native Nextflow for AAV capsid screening; automated FASTQ to annotated VCF in <90 min/sample.
- Applied clustering and generative models to identify blood-brain-barrier crossing capsids, eliminating 99.9% of in-vivo assays.

Data Scientist - Infosys Ltd | Sep 2018 - Jun 2022
- Developed 40+ database connectors and ETL pipelines, expanding ML platform adoption to 15 business units.
- Containerized AutoML services with Docker/Kubernetes, shrinking deployment cycles 75% and raising uptime to 99.9%.

EDUCATION

M.S. Business Analytics & AI, The University of Texas at Dallas, 2024 (GPA 3.9)
B.E. Mechanical Engineering, Ramaiah Institute of Technology, 2018 (GPA 9.8)

CERTIFICATIONS

AWS Certified Cloud Practitioner | Databricks GenAI Fundamentals | Graduate Certificate in Applied Machine Learning

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SELECT PUBLICATIONS

Sankaranarayanan I. et al. Single-Cell Transcriptome of Human DRG in Diabetic Neuropathy. Nat Neurosci 2024.
Franco-Enzastiga U. et al. Epigenomic Landscape of Human DRG. Cell Rep 2023.