

Vishnu Kamagere

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EDUCATION

Georgia Institute of Technology

Master of Science, Data Science

Atlanta, GA

Expected Graduation: Dec 2027

Purdue University

Bachelor of Science, Biomedical Engineering

West Lafayette, IN

Graduation Date: Dec 2023

WORK EXPERIENCE

PwC, PricewaterhouseCoopers Advisory Services LLP

Management Consultant – Pharmaceuticals and Life Sciences

New York City, NY

Aug 2024 – Present

- Identified market opportunities and conducted due diligence to support Go-To-Market (GTM) strategies for Fortune 500 digital health clients in a high-growth healthcare technology sector
- Analyzed hospital claims data using SQL and Excel to uncover cost, utilization, and performance trends, generating 6 actionable insights for MedTech clients
- Developed interactive Power BI dashboards for real-time KPI and SLA monitoring, reducing manual reporting by 60% and enabling scalable growth infrastructure
- Designed customized user interfaces (UI) in Microsoft PowerApps to centralize access to key collaterals, increasing user engagement by 30%
- Automated remediation tracking for pharmaceutical clients by building a Random Forest model and interactive Python dashboard with Streamlit, reducing manual review time by 80% and improving compliance reporting accuracy by 20%

Alcon, a Novartis Division

R&D Engineering Intern – Manufacturing

Houston, TX

Jun 2022 – Aug 2022

- Utilized Minitab to generate process capability charts (Cp, Cpk) and conduct root cause analysis (RCA) on device failures, improving process control and reducing defect rates
- Applied Lean Six Sigma and continuous improvement methodologies (Kaizen) to identify inefficiencies, reduce waste, and optimize surgical device manufacturing workflows, improving production throughput
- Performed bubble leak testing on Class II medical device packaging in accordance with ASTM F2096 standards, ensuring regulatory compliance with FDA requirements and ISO 11607-1 and 11607-2 standards
- Designed and 3D printed a custom testing fixture in SolidWorks to support future automation efforts, improving test consistency, ergonomics, and scalability on the production floor

PROJECTS

Breast Cancer Image Classification using Convolutional Neural Networks

Data Science Engineer

West Lafayette, IN

Jan 2023 – May 2023

- Developed a Convolutional Neural Network (CNN) in Python using PyTorch and OpenCV for breast cancer image classification, reducing model runtime by 20% and improving diagnostic accuracy by 15%
- Conducted exploratory data analysis (EDA) on 3,500+ medical images, identifying key radiomic features that increased model interpretability by 15%
- Built an end-to-end machine learning (ML) pipeline for image preprocessing, training, and evaluation, improving workflow efficiency and reproducibility
- Tuned hyperparameters (dropout rate, batch size, learning rate) using Grid Search and Bayesian Optimization, reducing overfitting by 20% and enhancing model efficiency

Prediction of Metastasis Tumor Status from Gene Mutation Patterns

Data Science Engineer

West Lafayette, IN

Sep 2022 – May 2023

- Developed supervised models (LASSO, logistic regression, random forest) to classify tumor metastasis from genomic data
- Applied data normalization and transformation techniques to preprocess and clean large-scale datasets, improving model performance and robustness by 20%
- Reduced dimensionality of data using PCA and PCR, removing noise and enhancing signal quality in high-dimensional genomic datasets
- Implemented cross-validation, hyperparameter tuning, and regularization techniques to optimize model generalization

TECHNOLOGY STACK

Languages: Python, SQL, R | **Visualization:** Power BI, Tableau, Excel | **Libraries:** Pandas, sci-kit learn, Matplotlib, NumPy