Joel Kinny

+1 (201) 241 9496 | joelkinny04@gmail.com | joel-portfolio.kinny-group.com | github.com/joelkny97 | linkedin.com/in/joel-kinny14

EDUCATION

Rutgers University, *M.S in Electrical and Computer Engineering* | New Jersey, USA   GPA: 4.0 / 4.0   May 2025
University of Mumbai, *B.Engg in Electronics and Telecom. Engineering* | Maharashtra, India   July 2019

Relevant Courses: Multimodal Machine Learning | Data Structures & Algorithms | Deep Learning | Stochastic and Numerical Analysis | Linear and Nonlinear Optimization | Cloud Computing & Big Data | Software Engg. for Web Apps

PROFESSIONAL EXPERIENCE

Quantiphi, *Data Scientist*   Jul 2021 - Aug 2023
- Designed and implemented advanced machine learning models for forecasting, enhancing insurance annuities and reducing claims processing time by 32%.
- Architected and optimized an Enterprise Data Warehouse on AWS, achieving a 70% reduction in ETL processing time through effective data modeling and efficient algorithms for data processing.
- Integrated scalable ML pipelines through CI/CD practices, improving data flow by 50% and collaborating with cross-functional teams to align solutions with business goals..
- Championed the development of data ingestion from financial statements into Machine Learning pipelines and improved business productivity by 35%.

Capgemini, *Senior Software Engineer*   Sep 2019 - Jul 2021
- Developed and enhanced a forecasting library for actuarial valuations, employing machine learning techniques that improved operational efficiency by 26%.
- Implemented a forecasting library for actuarial valuations, enhancing data-driven decision-making and increasing underwriting efficiency by 26% while contributing to a 15% revenue increase for the insurance division.
- Managed A/B testing and data-driven product development, designing experiments and outlining metrics to evaluate model performance aligned with business goals.

SKILLS

Languages	Python, C/C++, Java, JavaScript, TypeScript, MATLAB, Pl/SQL, Linux Bash
Web Development	HTML, CSS, Bootstrap, jQuery, Django, Flask, React, Vite, Angular, NodeJS
Cloud Services	AWS EC2, AWS Redshift, AWS SageMaker, AWS Lambda, AWS ECS, AWS SNS, AWS Glue
ML Tools	PyTorch, Tensorflow, XGBoost, Scikit-learn, MLOps, NLTK, HuggingFace, OpenAI, R, Statsmodels
BI Tools	BigQuery, Apache Spark, Splunk, PowerBI, Tableau, Airflow, Hadoop, AWS Glue, Spark Streaming, Seaborn, D3, node4j, MLOps, Docker, Kubernetes, DataStage, AbInitio, Informatica
Tools and Methods	CUDA, GPU, gdB, CMake, Vim, Jira, Jenkins, Git, Unsupervised Modeling, NLP, Generative AI, Deep Learning, Supervised Modeling, Mobile Development, LLama, Mistral, Claude
Certifications	AWS Solutions Architect Associate, Oracle SQL Database Associate

PROJECTS

Stock Recommender and Algorithmic Trading Bot Web Application   Apr 2024
- Developed a recommendation system utilizing LSTM and GANs for stock prediction, achieving a RMAE of 95% and a cumulative return on investment (CR) of 30%.
- Designed and implemented large-scale frameworks for distributed data processing and machine learning model training using Spark MLLib, aligning with business objectives and enhancing performance and scalability.
- Led development utilizing deep learning frameworks (PyTorch) for tasks such as time-series predictions and language processing and provided optimized news articles for better investment using LLM summarization.

Airline Path Planning System   May 2024
- Achieved a 56% improvement over traditional methods for incremental adaptive graph based search for shortest path problem for airport path planning system.
- Leveraged GenAI to implement a chatbot and reduced user search time by 76% for the airline booking web application.
- Observed a significant improvement over traditional airline reservation systems due to microservices architecture.

Financial Data Lake   Aug 2023
- Built a Financial Data Lake with multiple integrations, yielding insights into insurance annuities and claims that drove KPI improvements and reduced data inventory by 60% while ensuring compliance with modern DevSecOps practices.
- Performed comprehensive statistical analysis on multiparametric datasets, uncovering key insights that drove ultimately increasing the reducing data inventory by 63%.