LIM JAN JAY

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I am an AI/ML specialist with hands-on experience building medical AI systems, financial machine learning models, and scalable cloud solutions. I am passionate about solving real-world challenges through NLP, predictive modeling, and production-grade AI deployment.

EDUCATION

National University of Singapore (NUS) Aug 2020 - Jan 2025
Bachelor of Computing in Computer Science & Bachelor of Science in Mathematics

- Double Degree Programme in Computer Science and Mathematics
- Honours (Distinction) in Computer Science with Specialisation in AI/ML
- GPA: CS 4.86/5.00, Math 4.75/5.00 | Dean's List Recipient

NUS High School of Math & Science Jan 2014 - Dec 2019
NUS High Diploma (High Distinction)

- Honours in Mathematics and Physics, Major in Chemistry
- Conducted an Advanced Research Project on CubeSats with Defence Science and Technology Agency (DSTA), focused on designing commercial-level satellites on light pollution mapping
- GPA: 4.60 / 5.00

SKILLS

- AI/ML tools: Python, PyTorch, TensorFlow, scikit-learn, Tesseract, OpenCV, XGBoost
- ML Techniques: CNNs, RNNs, Transformers, BERT, NLP, Computer Vision,Time-Series Forecasting
- Cloud/DevOps: AWS (EC2, S3, VPC), Docker, CI/CD
- Data Tools: SQL, NoSQL (MongoDB), Pandas
- Data Analysis: MATLAB, SageMath and R
- Programming: Java, Javascript, C, C++
- Frameworks & Tools: Flask, FastAPI, JIRA, Git, Github, BitBucket, Sourcetree, Power BI

WORK EXPERIENCES

EAS.AI, Data Scientist and AI/ML Intern May 2024 - Aug 2024

- Developed an LLM-powered medical AI application in collaboration with a rising Indonesian health-tech startup to digitise medical records, leveraging fine-tuned transformer models (RoBERTa/Mistral AI) for NLP tasks such as named entity recognition (NER) and structured data extraction from unstructured doctor notes
- Automated Electronic Medical Record (EMR) submissions by processing 5,000+ doctors' notes across 100+ hospitals, achieving >95% field-population accuracy for over 100+ EMR fields using rule-based validation and ensemble ML models
- Designed a scalable NoSQL pipeline with MondoDB Atlas to migrate 1M+ patient records, optimising query latency by 40% through indexing and sharding

Bank of Singapore (BOS), AI/ML Intern May 2022 - Oct 2022

- Developed a full-stack audit report analyser using supervised machine learning to automate risk classification, extracting and categorising risk observations from company reports with NLP techniques (TF-IDF, NER, Word2Vec); accelerated workflow efficiency by 1600%, implemented bank-wide
- Designed fuzzy matching algorithms to match email addresses and customer names with user input to the bank's database; achieved 98% accuracy for over 100,000 entries
- Created an Optical Character Recognition (OCR) selection tool to extract any components of a scanned PDF file and export into a new file; performed with over 99% accuracy and 97% precision, has been well received and put into production
- Implemented an Autoregressive Integrated Moving Average (ARIMA) model for client attrition prediction; left a great impression on clients and performed with 97% accuracy and 96% precision

ACHIEVEMENTS

- Dean's List for Bachelor of Computing in Computer Science, 2024
- Dean's List for Bachelor of Science, 2024
- Distinction in the Artificial Intelligence Focus Area, 2024
- Top Student for NUS CS3243: Artificial Intelligence, 2023
- Distinction and AIME Qualifier for American Mathematics Competitions 12, 2018
- Gold for Singapore Mathematical Olympiad Senior, 2016 & 2017