Manveer Singh

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- LeetCode: https://leetcode.com/u/Manveer05
- Seek: https://seek.com.au/profile/me

Professional Summary:

Results-driven Data Science student majoring in Data Science at Swinburne University & Kaplan Business School. Skilled in Python, SCIKITLEARN,TensorFlow, and AWS, SQL with hands-on experience across forecasting, computer vision, and recommender systems. Passionate about transforming complex data into actionable insights, integrating analytics with real-world business and investment strategies.

Education

Bachelor of Information Technology (Major: Data Science)
-Swinburne University of Technology

-Kaplan Business School, Melbourne

Expected Completion: 2026
Key Coursework: Machine Learning, Deep Learning, Data Mining, Big Data Analytics, Cloud Computing, Web Development, Database Systems.

Certifications

- IBM Machine Learning Specialization – United Latino Students Association (Q3K1VEQCIJY0)
- Supervised Machine Learning: Classification – United Latino Students Association (2KG5QZAL24YC)
- Supervised Machine Learning: Regression – United Latino Students Association (E2X6DPGN8SHC)

- Unsupervised Machine Learning – United Latino Students Association (3LTGEV4YFW2W)
- Deep Learning and Reinforcement Learning – United Latino Students Association (4C2RPFZ480DQ)
- Exploratory Data Analysis for ML – United Latino Students Association (3OC8B2X5QKKK)
- Machine Learning Capstone – United Latino Students Association (6DSLANF94N8V)
- Advanced Machine Learning, Big Data, and Deep Learning – Packt (KM1DK1A2QM9A)
- AWS Cloud Practitioner Certification Specialization – United Latino Students Association (GXI68SDCZZV3)
- Introduction to AWS – United Latino Students Association (XIRKOYVC1PAY)
- AWS Pricing – United Latino Students Association (07XSXX1QDAG9)
- AWS Services – United Latino Students Association (6FJ0E03WS5ET)
- Cloud Fundamentals – United Latino Students Association (QTC8V0W79JJJ)
- SQL for Data Science – University of California, Davis (7S7H2IBAHYXD)

Technical Skills

Programming & ML Frameworks:
Python (NumPy, Pandas, scikit-learn, TensorFlow, Keras, PyTorch, Darts, Statsmodels, XGBoost, LightGBM), R, SQL, Bash, Ruby, C#

Big Data & Databases:
MySQL, MariaDB, PostgreSQL, SQLite, MongoDB, Apache Spark (PySpark), Hadoop (conceptual), AWS Athena

Cloud & Data Engineering:
AWS (S3, Lambda, SageMaker, EC2, CloudWatch), Google Cloud Platform, ETL Pipelines, Data Warehousing, Data Preprocessing, API Integration, MLOps (learning stage), Docker (basics)

Web Development & Deployment:
HTML, CSS, PHP, JavaScript (basic), Flask, Streamlit, REST APIs, JSON, Git/GitHub CI/CD

Visualization & Business Intelligence:
Tableau, Power BI, Matplotlib, Seaborn, Plotly, Dash, Excel Analytics, Exploratory Data Analysis (EDA)

Machine Learning & AI Concepts:
Supervised & Unsupervised Learning, Deep Learning, Neural Networks (CNN, LSTM, RNN), Time-Series Forecasting, NLP, Sentiment Analysis, Feature Engineering, Model Optimization, Transfer Learning, Computer Vision, Reinforcement Learning

Statistical & Analytical Skills:
Regression Analysis, Hypothesis Testing, Probability Distributions, Correlation Analysis, A/B Testing, Statistical Modeling

Tools & Platforms:
Jupyter Notebook, VS Code, Google Colab, DBeaver, Kaggle Notebooks, AWS Console, GitHub

Projects

- CryPe 1.0 — Cryptocurrency and Stock Market Price Prediction
    - Built LSTM, XGBoost, and N-BEATS models for multivariate crypto price forecasting.
    - Engineered SMA, MACD, volatility indicators; achieved MAPE ≈ 4.7%.
    - Designed scalable pipeline for time-series feature integration.
- FashionVision — Deep Learning Clothing Classifier
    - Compared Dense vs CNN models on Fashion-MNIST achieving ~91% accuracy.
    - Visualized confusion matrix and 16-image prediction grid to evaluate model performance.
- Object Detection using Mask R-CNN
    - Implemented real-time object detection & tracking using COCO dataset classes.
    - Developed IoU-based tracker maintaining consistent object IDs across frames.
- Course Recommendation App
    - Built hybrid recommender using KNN, NMF & Neural Embeddings.
    - Deployed Streamlit interface for personalized course search & ranking.

-Quantium Data Analytics Job Simulation on Forage - October 2025

- Completed a job simulation focused on Data Analytics and Commercial Insights for the data science team.
  Developed expertise in data preparation and customer analytics, utilizing

transaction datasets to extract valuable insights and deliver data-driven commercial recommendations.

Awards and recognition

Academic Excellence in Networking and Switching
Swinburne University of Technology, Melbourne

- Recognized as one of the **top-performing students** in the Networking & Switching unit.
- Invited to deliver a **motivational speech** to the next semester's batch, sharing insights and learning strategies as the **previous semester's best-performing student**.
- Demonstrated strong understanding of **network protocols, routing, and switching concepts**, combined with leadership and public-speaking skills.

Finance & Investing Strengths

- Manage diversified global ETF portfolio (NASDAQ, Global 100, Momentum, Flexi-Cap).
- Apply RSI, MACD, Bollinger Bands & EMA indicators for market timing and optimization.
- Use ML forecasting models for trend analysis and quantitative decision-making.
- Focus on long-term compounding and portfolio diversification.

Key Achievements

- Delivered 15–17% returns within 6 months through analytical investment strategies.
- Built four end-to-end ML products integrating data preprocessing, modeling & deployment.
- Recognized for academic excellence and independent project innovation.
- More projects like Crype 2.0, 3.0,MRI detection in pipeline .

Soft Skills

Analytical Thinking, Continuous Learning, Research & Experimentation, Collaboration, Attention to Detail, Strategic Problem-Solving