

Solvin Kang

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Education

University of Technology Sydney (UTS)

Ultimo, NSW

Bachelor of Engineering (Honours), Major in Data Science

Feb 2023 – Present

- Expected graduation: May 2027
- Weighted Average Mark (WAM): 79.94

Experience

Engineering - Intern

May 2026 – Aug 2026

Optik Consultancy – Rockfield Technologies Australia

Botany, NSW

- Researched, tested, and integrated speech-to-text technologies for field inspection environments, achieving approximately 95% speech recognition accuracy during application testing.
- Implemented on-device AI functionality using Sherpa-ONNX for speech recognition and Gemma 3 1B for transcript processing and structured report generation.
- Communicated directly with clients to gather project requirements, demonstrate application iterations, and incorporate client feedback throughout development and testing.

Inventory Manager – Grocery

Feb 2023 – Present

Coles Supermarkets

Chullora, NSW

- Conducted daily scan audits and stock reworks, identifying 95% of shelf gaps and contributing to accurate inventory tracking through analysis of replenishment trends using handheld systems.
- Presented regular updates in weekly team meetings to support task coordination within the department.

Projects

Eat Fresh Application

Feb 2025 – May 2025

- Implemented a multi-task computer vision pipeline combining ResNet-18 classification and U-Net segmentation for fruit type recognition and spoilage localisation.
- Performed hyperparameter tuning, augmentation strategy design, and optimiser experimentation to improve generalisation, achieving 97% classification accuracy and 51% IoU segmentation performance.
- Processed and annotated 5,075 images using CVAT and built preprocessing pipelines to reduce overfitting and improve robustness across validation datasets.

CoVision – COVID-19 X-ray Diagnosis System

Aug 2024 – Oct 2024

- Developed a U-Net-based medical image segmentation model to detect COVID-19 lung infection, achieving 85% cross-validation accuracy and a Dice score of 0.78.
- Mitigated small dataset bias through augmentation, transfer learning, and preprocessing pipelines using OpenCV to improve model robustness.
- Evaluated segmentation reliability using Dice and IoU metrics to assess localisation performance across validation folds.

Technical Skills

Machine Learning & AI: Deep Learning, Computer Vision, Transfer Learning, Model Evaluation, Speech Recognition

Programming: Python, SQL, Kotlin

Frameworks & Libraries: PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, Sherpa-ONNX

Data & Visualisation: Power BI, Tableau, Excel

Tools & Cloud: Android Studio, Microsoft Azure, CVAT, Jupyter Notebook, Git, Gemma 3, Salesforce, Figma, Miro