

Siva Kumar

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Professional Profile

Innovative and results-driven Artificial Intelligence Developer with strong foundations in Python, machine learning, and natural language processing. Experienced in building intelligent applications using frameworks such as PyTorch, TensorFlow, and Hugging Face, with practical exposure to integrating AI models into real-world systems through projects in NLP and Computer Vision. Adept at translating complex algorithms into deployable, user-focused solutions. Passionate about advancing AI-driven development, continuous learning, and delivering impactful technologies that enhance user experience and business efficiency.

Key Skills Summary

Technical Skills

Languages: Python

Libraries: Scikit-learn, OpenCV, PyTorch, TensorFlow, NLTK, Hugging Face, Flask RESTX

AI techniques: Reinforcement Learning, Knowledge Representation, Search Algorithms

NN techniques: CNN, RNN, LSTM, Transformers, GAN, Attention mechanism, Transfer learning

CV techniques: Image processing, Object detection, Image classification, Image segmentation

NLP techniques: Tokenisation, Lemmatisation, TF-IDF, Word2Vec, GPT-based APIs, Sentiment analysis

Personal Attributes

Creative problem-solver

Strong logical and analytical thinker

Effective collaborator

Curious and proactive learner

Passion for software & data quality and best practices

Achievements

- Proactively observed and learned debugging techniques from the IT team, enabling independent resolution of recurring issues and reducing store downtime.
- Systematically reorganised existing stock to optimise space and accommodate new inventory efficiently.
- Enhanced fruit-picking accuracy as a second checker, improving overall team productivity by 80%
- Supported store management and staff with clerical and back-end tasks such as inventory management, allowing the floor team to prioritise customer service and revenue generation.

Professional Experience

IT Support Analyst (Voluntary)

April 2022 - Present

APG and Co Pty. Ltd., Sydney

- Efficiently provided first-level troubleshooting and user support for staff across hardware and software issues, reducing downtime due to such errors by over 200%
- Accurately assisted with device setup, software installations, and email configuration for new and existing users, decreasing time taken for set-ups by 80%
- Promptly coordinated with internal IT teams to escalate and resolve advanced technical issues

Notable Projects

Emotion Classification from Tweets

- Neural Network project to classify emotions in tweets using NLP and transformers with Python, NLTK, BERT, Hugging Face datasets.

- Group project where responsibility included fine-tuning and running BERT, evaluate accuracy, document and present findings.
- Achieved accurate emotion classification.
- Gained NLP expertise, transformer model training, and team collaboration skills.

Semantic Segmentation in Natural Environments

- Computer Vision project to classify and segment natural environment images with Python, OpenCV, U-Net, k-NN, scoring functions.
- Group project where responsibilities included working on data preparation and segmentation pipeline, coordinating with teammates.
- Successfully configured a version-sensitive CUDA environment for GPU acceleration by rolling back and aligning Python, NVIDIA GPU software, and dependent libraries.
- Delivered image segmentation outputs.
- Strengthened computer vision skills and teamwork in AI-based projects.

Professional Development

IT Professional Year Programme (ACS)

Performance Education, Sydney, NSW

May 2025 - Present

- Trained in Australian Business Culture, industry practices, technical communication and presentation skills.
- Gaining practical experience to enhance employability in the IT sector

Education

Masters in Information Technology

University of New South Wales

Feb 2023 - Mar 2025

Relevant subjects: Artificial Intelligence, Computer Vision, Neural Networks, Data Services Engineering

Bachelors in Electronics Engineering

Singapore University of Social Sciences

Jan 2015 - Mar 2020

Certification

SAP-ERP

Lithan Hall Academy Pte Ltd, Singapore

2019

Interest and Hobbies

- Learning about technologies in other IT sectors
- Study aviation incident case studies to learn human factors, risk management, Crew Resource Management and problem-solving.

Reference

Available on request