

# Sepehr Jokanian

## PERSONAL DETAILS

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## EDUCATION

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Bachelor of Computer Science (Artificial Intelligence)

Asia Pacific University of Technology & Innovation

**Final Year Project-** Developing an Artificial Intelligence System for Cyberbully

2022-2025

Detection and Enhancing Safety on Online Forums- **Awarded A+**; selected to compete among the university's outstanding final-year projects.

Diploma in Mathematics and Physics

Shahid Ayatollah Dastgheib High School

2012-2016

CGPA: 3.80 (19.06/20)

## ACADEMIC INTERESTS

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- Neural Networks & Deep Learning
- Computer Vision
- Natural Language Processing (NLP)
- Generative AI and Large Language Models
- Prompt Engineering for AI Systems

## PUBLICATIONS

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**Jokanian, S.**, Alizadeh, S. (2026). *Developing an artificial intelligence system for cyberbully detection and enhancing safety on online forums*. Manuscript under preparation for publication.

**Jokanian, S.**, Esmaeil Zadeh, N. (2025). *Overcoming bushfire challenges via machine learning techniques and enhanced training data in Australia*. Manuscript submitted to Natural Hazards (Springer Nature), December 2025.

**Jokanian, S.** (2024). *Application of machine learning for the prediction and management of non-communicable diseases*. Journal of Applied Technology and Innovation (JATI), 8(4), 28–35.  
[https://jati.sites.apiit.edu.my/files/2024/11/Volume8\\_Issue4\\_Paper5\\_2024\\_28-35.pdf](https://jati.sites.apiit.edu.my/files/2024/11/Volume8_Issue4_Paper5_2024_28-35.pdf)

## WORK EXPERIENCES

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### AI Developer Intern

As an intern in the position of AI Developer, developed and implemented a chatbot for the Asia Pacific University Career Center, Alumni, and Cooperative Training websites to enhance user interaction and support.

## ACADEMIC PROJECTS

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- **Cyberbullying Detection System | Python, NLP, TensorFlow/PyTorch (Final Year Project) | 2025**

Cross-entropy loss and Adam optimizer; automated abusive language detection with 92% accuracy

- **SMS Spam Detection System | Python, Machine Learning | 2025**

TF-IDF feature extraction; Naive Bayes / SVM experiments and model selection; built end-to-end pipeline for SMS text cleaning

- **Handwriting Detection System | MATLAB | 2025**

Implemented image processing algorithms (pipeline and evaluated OCR performance) on handwritten samples

- **Car Price Prediction System | Python, AI | 2025**

Developed regression-based models (linear reg, tree ensembles) and feature engineering to predict car prices

- **Face Mask Detection Enhancement | AI / ML (Computer Vision) | 2025**

Enhanced a real-time face mask detection system (Convolutional Neural Networks and real-time inference optimizations)

- **Hostel Visitor System | Java EE, HTML, CSS, Servlets | 2024**

Enterprise backend services with session management and role-based access; developed visitor registration, logging and reporting modules to streamline operations

- **Data Factorization | R Programming | 2024**

Applied PCA / SVD / NMF techniques for dimensionality reduction and factor analysis; implemented workflows to factorize large datasets and improve downstream processing

- **Language Learning App | Flutter (Dart) | 2024**

Cross-platform UI, interactive lessons, quizzes and progress tracking on admin panel

- **E-Library Data Management System | SQL | 2023**

Database design, normalization and complex query implementation; designed and implemented robust schema for efficient storage and retrieval of library data

- **Develop Trivia Pursuit Card Game | C++ | 2023**

Game logic, scoring system and random question generation; implemented core gameplay mechanics and collaborated on UI/gameflow integration

## RELATED COURSES/PROGRAMMING SKILLS

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### UNDERGRADUATE

- Python Programming
  - SQL
  - C Programming
  - C++ Programming
  - CSS
- Flutter (Dart)
  - Java
  - R programming
  - MATLAB
  - HTML

### SELF-LED COURSES

- Generative AI
- Deep Learning for Healthcare
- Research Proposal
- Computer Vision App with Azure
- Google Analytics

## **PTE SCORE**

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| Listening | Speaking  | Writing   | Reading   | Overall   |
|-----------|-----------|-----------|-----------|-----------|
| <b>65</b> | <b>73</b> | <b>65</b> | <b>72</b> | <b>69</b> |

## **PROFESSIONAL REFERENCES**

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- **Shahab Alizade**

Lecturer of Computing Faculty

- **Zailan Arabee Abdul Salam**

Senior Lecturer of Computing Faculty