

# RAJATH THALIYADATH

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## PROFESSIONAL SUMMARY

Software Engineer and AI Specialist with professional experience in Python development. Currently pursuing a Master of IT in Artificial Intelligence at Macquarie University, focusing on Machine Learning and Deep Learning architectures. Proven track record of building scalable applications and implementing predictive models (LSTM) to solve complex technical challenges.

## EDUCATION

### Master of Information Technology in Artificial Intelligence

Macquarie University

Feb 2024 – Present

Sydney, Australia

### Bachelor of Technology in Computer Science

LBS College of Engineering

2018 – 2022

Kasaragod, Kerala, India

## WORK EXPERIENCE

### Python Engineer

QBurst

Aug 2022 – Dec 2023

Trivandrum, Kerala, India

- Developed and optimized backend services using Python and Django for enterprise-level applications.
- Designed and implemented RESTful APIs, improving system interoperability and performance.
- Managed PostgreSQL database migrations and query optimizations to handle high-traffic data.
- Collaborated in an Agile environment with daily sprints, peer code reviews, and technical documentation.

## TECHNICAL PROJECTS

### Landslide Detection using Machine Learning (LSTM) | Python, TensorFlow, Keras

- Developed a Deep Learning model using LSTM networks to predict landslide events from time-series data.
- Executed data cleaning and feature engineering on complex geological and meteorological datasets.

### Student Management Portal | Python, Django, PostgreSQL

- Engineered a full-stack web application for student record management with secure role-based access.

## TECHNICAL SKILLS

**Languages:** Python (Expert), SQL, C++ , Java, JavaScript

**AI/ML:** TensorFlow, Keras, Scikit-learn, LSTM, Predictive Modeling, Time-series Analysis

**Backend:** Django, Flask, REST APIs, PostgreSQL, Docker

**Tools:** Git, Linux, VS Code, Jira, Agile Methodology

## LEADERSHIP & ACHIEVEMENTS

- NSS (National Service Scheme) Head: Led a community service team of 50+ members for local impact projects.
- Volunteer Leader: Orchestrated disaster relief and educational support activities in Kerala.

## AVAILABILITY

Full-time availability for course-integrated internships (WIL/PACE/COMP8860).