Adithya Krishnakumar

AI & Software Engineer | **Portfolio:** https://adkkn.github.io/portfolio | Dubai, UAE

+971 50 5017385 | adithyakk2013@gmail.com | www.linkedin.com/in/adithya-krishnakumar

EDUCATION

University of Liverpool	Aug. 2025 – Present
Master of Science in Artificial Intelligence & Data Science	*Part-Time*

American University of Sharjah	Sep. 2021 – May 2025
Bachelor of Science in Computer Science, Minors in Data Science and Applied Mathematics	*Full-Time*

- Founder & President - The AI Club, Technical Core Team Member - Google Developer Groups, Active Students' Scholarship Recipient - 2024

EXPERIENCE

AI & Automation Software Engineer	Feb 2025 – Present
Transmed Overseas Inc, Dubai	*Full-Time Contract*

- Built tailored software solutions that streamlined workflows and reduced manual effort across departments.
- Automated Transmed's entire invoice booking process, achieving an 83% increase in processing speed.
- Singehandedly delivered an enterprise-level web platform adopted by multiple core departments, which centralized data, automated clearance workflows, and tracked live shipments.

AI, Automation & Data Analytics Intern	June 2024 – Aug. 2024
Transmed Overseas Inc, Dubai	*Internship*

- Developed ML models to significantly improve sales forecasting accuracy beyond current manual forecasts.
- Automated data entry and validation processes using VBA and macros, enhancing operational efficiency.
- Created an AI-powered web app to streamline IT service queries, incorporating various OpenAI models and Python Flask backend API integration with the Manage Engine IT Ticketing System for user convenience.

AI Intern	May. 2024 – June 2024
Smallcap.AI	*Internship*

- Learnt how to develop Generative AI NFTs on Ethereum, integrate account abstraction wallets, and IPFS.
- Leveraged OpenAI API services for advanced AI applications.

SEO & AI Blogging Intern	Nov. 2023 – Jan. 2024
Inspirit.AI	*Internship*

- Developed SEO skills under Stanford graduates; authored AI blog posts analyzing SEO performance.
- Collaborated with industry leaders to refine SEO strategies for enhanced content marketing.

IT Student Worker – College of Engineering	Sep. 2023 – May 2024
American University of Sharjah	*Part-Time*

- Maintained IT infrastructure; resolved 120+ technical issues improving campus technology reliability.
- Partnered with IT teams to deploy solutions enhancing AUS's digital environment and network operations.

AWARDS

1st Place | *Blockathon: AI for Decentralized Autonomy 2025*	May 2025

- Independently developed a production-grade Next.js travel planning AI web app with SUI blockchain features.

6th Place | *DragonOil AI Hackathon II - GOTECH 2025*	Apr. 2025

- Leveraged multiple AI algorithms to accurately estimate Surface network production flow behaviour.

3rd Place + Best Solution Champion | *RTA X Alibaba Cloud Generative AI Hackathon*	Oct. 2024

- Created an interface leveraging AI algorithms (XGBoost & DBScan) to predict Dubai Taxi Rank locations and estimate hourly taxi demand.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript/Typescript, HTML, Tailwind CSS, R, MATLAB, Kotlin
Frameworks: Next.js, React, Node.js, Express.js, Expo, React Native, Flask, Django
Developer Tools: Git, VS Code, Visual Studio, Android Studio, Eclipse, PostgreSQL/MySQL, Supabase/Firebase

PROJECTS

AI Projects | *Python (PyTorch, TensorFlow, Pandas, NumPy, Scikit-learn, Transformers, Tokenizers, Python-CAN)*
- ***OriginAI: Binary Multilingual MGT Detector:*** Fine-tuned the mGTE model with the LoRA adapter to accurately classify AI-generated text in any language using transfer learning.
- ***Security Scripts as Stories:*** Leveraged three LLMs (GPT, Gemini, Llama) to generate CAN bus attacks on a Raspberry PI acting as an ECU and conduct intrusion detection. Developed a car dashboard UI to simultaneously show the real-time conversion of CAN bus messages to the car's speedometer and RPM meter.
- ***Deepfake Detection:*** Used a Binary Neural Network to accurately classify AI-generated images for this Computer Vision Project. F1-Score: 0.91
- ***Garbage Classification:*** Classified household waste using several ML algorithms, an ML ensemble model, and a Deep Learning (Computer Vision) model. Extracted image features using VGG16 for ML models. F1-Score: 0.93

AI Models | *Python (PyTorch, TensorFlow, Pandas, NumPy)*
- ***Medical Imaging AI Model:*** This AI model interprets medical images like X-rays using deep learning, enhancing diagnostic precision and speed for conditions such as tumours and fractures, improving patient outcomes.
- ***Emotion Detection AI Model:*** This model gauges emotions by analyzing expressions, eye movements, and gestures, finding applications in customer sentiment analysis and human-computer interaction.
- ***Fake News Detection AI Model:*** Employing NLP, this model assesses linguistic patterns and sources to identify misinformation, aiding in the fight against the spread of fake news and promoting media literacy.
- ***Driver Distraction AI Model:*** Utilizing Facial Recognition features, this model determined whether the driver was paying attention to the road or not.

Web Application Development | *HTML, CSS, JavaScript, Flask, React, Node.js, SQL, Git*
- ***DARK Games Store:*** Developed a Web Application for an online Games Store with complete Database functionality. Used HTML + CSS + JavaScript for creating the webpages and integrated the MySQL back-end using Node.js.
- ***24/7 Laundromat***: Developed a React Web Application for an online Laundromat service with complete Database functionality. Used HTML + CSS + JavaScript for creating the webpages and integrated the MySQL back-end using Node.js.
- ***CalendaFlow:*** Built a simple Calendar Web Application. Used Git for Version Control and to Deploy a Calendar through GitHub Pages. (LINK)

Application Development | *Java, Python, Firebase, SQL, Android Studio*
- ***SpareHour:*** Developed a fully - functional Java Mobile Application on Android Studio with a Firebase database which provides a list of common meeting times for teams.
- ***Game of Life:*** Designed a fully - functional Game of Life simulation using Java and the Swing library. Implemented menus, resizable grids, and user – friendly buttons and sliders to simulate future generations.
- ***Hangman Game:*** Developed a user-friendly Hangman game using Python with complete MySQL integration. It includes features like a leaderboard, scoring, and user interaction.

CERTIFICATIONS & PROGRAMS

- **AWS Certified AI Practitioner**
- **Deep Learning Specialization - DeepLearning.AI**
- **Machine Learning Specialization - Stanford / DeepLearning.AI**
- **Microsoft Azure AI Engineer Associate**
- **Microsoft Azure AI Fundamentals**
- **7 Data Science Courses - Datacamp**
- **Gen AI, Prompt Engineering, MLOps, Kubernetes, AWS, GCP - Manifold AI Learning**
- **Google Data Analytics Professional Certificate**
- **Exploratory Data Analysis for Machine Learning - IBM**
- **Inspirit AI Ambassadors Program**
- **Inspirit AI Scholars Program**