





Akshaj Vadakkath Joshy

 akshajvj2003@gmail.com  +917994455463  Akshaj V J - LinkedIn  Dominating—

Computer Science graduate working as a Specialist Programmer at Infosys, with a strong interest in learning, building skills, and solving real-world engineering problems

PROFESSIONAL EXPERIENCE

L1 Specialist programmer, Infosys Ltd  06/2025 – present


- Enhanced and maintained **Azure Data Factory** pipelines for multiple enterprise data products.
- Built Python scripts to map pipeline-to-table dependencies, improving visibility and reducing **debugging effort by ~40%**.
- Optimized scheduling and execution, **cutting concurrency-related failures by ~60%**.
- Diagnosed and resolved pipeline issues through **root cause analysis**.
- **Skills: Python, SQL, Databricks, Azure Data Factory, Azure Cloud Services**

SDE Intern, Tata Consultancy Service (TCS)  07/2024 – 09/2024

- Developed an interactive dashboard for **daily nutritional monitoring**.
- Implemented YOLOv5-based image recognition, achieving **~90% accuracy for fruit identification**.
- Used **OpenAI API to provide nutritional info**, improving user experience and engagement.
- Built Flask backend with REST APIs and SQLite for user authentication and data storage.
- **Skills: Python, React.js, Flask, YOLOv5, OpenAI API, SQLite, REST APIs, JavaScript, HTML, CSS**

SKILLS

PROJECTS

ASLAnimator  03/2024 – 07/2024

- Developed a **web app** converting **English text to ASL animations**, improving communication for hearing-impaired users.
- Created realistic ASL character models and animations using Blender.
- Enabled **text-to-ASL conversion with a cross-platform, user-friendly interface**, improving accessibility and usability across devices.
- **Skills: React, HTML, CSS, JavaScript, NLTK, blender, UI/UX, DBMS**

EEG Data Analysis

- Analyzed EEG data from **15 subjects** performing real and imagined hand movements.
- Processed signals with **Python and MNE**, reducing noise and improving classification
- **Classified left vs. right hand movements with ~95% accuracy** using signal processing and ML techniques.
- **Distinguished real vs. imagined actions with ~72% accuracy**, identifying key brain regions and discriminative features.
- **Skills: Python, NumPy, Pandas, MNE, EEG Signal Processing, Machine Learning**

EDUCATION

BTECH CS, AMRITA SCHOOL OF ENGINEERING 09/2021 – present
• Grade: 8.2 GPA out of 10 AMRITAPURI, INDIA

- 12th Grade: 87.6%
- 10th Grade: 91.6%

PUBLICATIONS


Sentimental Analysis of Twitter Data, ICSSIT

- Evaluated four **ML models** (Logistic Regression, Multinomial/Gaussian Naive Bayes, SVM) for sentiment classification.
- Performed **Twitter sentiment analysis**, achieving best results with **SVM (AUC 0.77)** on balanced data.
- Applied **text preprocessing** and **feature engineering** using **NLTK** to improve model performance.
- Generated **actionable insights** on **model selection and evaluation** for social media sentiment analysis.
- **Skills:** Python, NLTK, ML algorithms, NumPy, Pandas, SOUP

COMMUNITY OUTREACH

Java Simplified: Understanding Programming Basics,

10/2023 – 12/2023

Author of Java Programming eBook 

- Published an **educational eBook** on Java programming to support beginner learners.
- Provided **clear, line-by-line explanations** and **problem-solving examples** to simplify core concepts.
- Reached **1,000+ students online** through downloads and shared with **~1,000 juniors** via WhatsApp groups, receiving **50+ website downloads**.

Unlocking DSA

- Conducted **3-day training** on **Data Structures and Algorithms** for **60+ students**, covering core concepts, implementations, and practical applications.
- Explained **why DSA is important, where and how to practice**, and strategies to improve problem-solving skills.

EXTRACURRICULAR

Mentor, Competitive Programming

01/2023 – 04/2024

- Led **training sessions** for **Algo Queen / ICPC contestants**, covering common CP patterns and contest strategies.
- Provided **mentorship** to juniors and recorded sessions.
- Strengthened **leadership and communication skills** while teaching complex algorithms and problem-solving techniques.

CERTIFICATES

- Advanced Learning Algorithms 
- Supervised Machine Learning: Regression and Classification 