

# ADITHYA MONISH KUMAR K

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## SUMMARY

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Full-Stack and AI Enthusiast skilled in JavaScript (React, Node.js), TypeScript, and modern CSS. I build scalable web and mobile applications and integrate machine learning models—using TensorFlow, PyTorch, and Hugging Face—for features like semantic search and real-time analytics.

## TECHNICAL SKILLS

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### Languages

**and Technologies:** JavaScript, TypeScript, HTML, CSS, C/C++, Java, Python, Dart, SQL, Tailwind CSS, Flutter, Git, Docker

**Frameworks/Tools:** React, Node.js, Flutter, Vite, Zustand, Supabase, PostgreSQL, MongoDB, MySQL, TensorFlow, PyTorch, Hugging Face, Tinkercad, Lucide React, Framer Motion, React Toastify

**Concepts:** OOP, DSA, DAA, ML, Deep Learning, COA, DBMS, UI/UX Design

## PROJECTS

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### LifeLeveler

2025

*React, TypeScript, Vite, Tailwind CSS, Supabase, Node.js, PostgreSQL*

- A gamified life management app transforming daily tasks into an RPG adventure.
- Integrated advanced frontend libraries such as Zustand, Framer Motion, Lucide React, and used Netlify for deployment.

### Sony SSUP AgroESP Mobile App

2025–Present

*Flutter, Dart*

- Led development of an app offering real-time weather, market prices, and farming advice.
- Integrated SSE for real-time sensor data, image updates, and chart rendering.
- Built query and profile pages; implemented responsive UI and live updates for data/image feeds.

### PDF-Document-Structure-Extraction-Engine

2025

*Python, LightGBM, Transformers, PyMuPDF*

- Developed a hybrid pipeline to extract and classify structural elements (Title, H1–H4) from PDFs using LightGBM and Transformer-based models.
- Engineered typographic and positional features, and implemented block-merging heuristics for robust outline generation.

### Persona-Driven-Document-Intelligence-Engine

2025

*Python, SentenceTransformers, LightGBM*

- Built a semantic matching engine that ranks PDF sections for specific user personas using fine-tuned SentenceTransformer and cosine similarity scoring.
- Designed a multi-stage relevance scoring framework combining title similarity, content embeddings, and subsection summarization.

## EDUCATION

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### Bachelor of Technology in Computer Science and Engineering

Aug 2023 – July 2027

*Amrita Vishwa Vidyapeetham, Coimbatore*

- CGPA: 7.65 (3rd Year)