

# ANANDHA KRISHNAN S

## AI Engineer / Consultant

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### PROFESSIONAL EXPERIENCE

**Avantoura, AI Engineer** August 2025 – Present

- Engineered AI workflows using n8n, Cloudflare Workers, Evolution API, and Gemini Pro, enabling scalable event-driven pipelines for data processing and conversational automation.
- Architected a RAG-based chatbot with domain-adaptive embeddings and context retrieval using vector search model in mongodb, improving answer accuracy by 55% and reducing support workload.
- Developed an audio-to-insights pipeline using Whisper + custom NLP models to transcribe, clean, and structure 1,000+ hours of audio data for analytics and product insights.

**Sam Corporate, Data Implementation Engineer** August 2024 – August 2025

- Integrated Azure AI (OCR + Form Recognizer) with Generative AI workflows to extract structured insights from handwritten forms and ESG PDFs, reducing manual processing time by 70%.
- Built a Python-based Data Mapping & Power BI automation workflow that aligned 10+ client templates and improved data accuracy and reporting speed by 40%.
- Implemented internal testing and validation workflows using Selenium and Playwright, increasing test reliability and reducing manual QA time.
- Led client requirement-gathering, onboarding, and solution demo sessions, ensuring smooth adoption of data automation tools.
- Worked with cross-functional teams (tech, QA, product, consulting) to translate business rules into scalable data pipelines and integration logic.

**Luminar Technolab, Data Science Intern** November 2023 – July 2024

- Developed ML/DL solutions including an LSTM currency predictor ( $R^2 = 0.91$ ), CNN for diabetic retinopathy detection (78.5% accuracy), and fake news classifier (98.7% accuracy using SVM & spaCy).
- Built a real-time gesture recognition system using OpenCV & MediaPipe with <50 ms latency for efficient human-computer interaction.
- Worked with Power BI dashboards and performed SQL-based analytics on IMDb and transaction datasets to uncover actionable business insights.

### PROJECTS

**AttriMind, Machine Learning for Attrition & Depression Detection**

- Developed a Linear Regression model achieving 81% accuracy, improving predictive performance and enabling data-driven monitoring and decision-making.
- Designed and built a full-stack application end-to-end—from survey data collection and user onboarding to model integration and results visualization—streamlining user management and predictions within a single platform.
- Evaluated and benchmarked multiple machine learning algorithms with accuracy ranging from 70% to 90%, ensuring robust and reliable mental health assessment outcomes.

### EDUCATION

**Master's in Computer Science (CGPA-8.1), University of Kerala**  
2021–2023 | Thesis: Employee Attrition & Depression Analysis using ML

### SKILLS

**Generative AI & LLMs:** Claude, Mistral, LLaMA, LangChain, LlamaIndex, RAG, Vector Databases, Prompt Engineering, and Agentic Workflows.

**Machine Learning:** RNN, CNN, Transformers, XGBoost, LightGBM, Clustering, PCA, NLP, and Model Optimization.

**Tools:** GCP (Compute Engine, GCS), Azure (ML Studio, DevOps), Docker, Kubernetes, Git, and Terraform, N8N, Playwright, Docker, MongoDB, MySQL, Azure, Fast API, Flask, REST

**Visualization:** Power BI, Tableau, Looker Studio, Excel (Power Pivot, DAX), Matplotlib, Seaborn, and Plotly.

**Programming:** Python, SQL, R, Java, Scala, Bash, HTML, and CSS.

### CERTIFICATES

Google Data Analytics Professional Certificate | Google Business Intelligence Professional Certificate | IBM-Python 101 for Data Science | University Of London, Foundations of Data Science: K-Means Clustering in Python | Meta Front-End Developer Professional Certificate

### LANGUAGES

English | Malayalam | Spanish | Hindi | Sanskrit