ANANDHA KRISHNAN S

AI Engineer / Consultant

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PROFILE

AI Engineer/Consultant with 2+ years of experience building production-grade RAG systems, LLM-powered automation, and scalable AI pipelines. Experienced in consulting engagements, collaborating with stakeholders and clients to gather requirements, translate business needs into AI-driven solutions, and deliver measurable results. Specialized in conversational AI, cloud-based workflows, and data-centric systems that drive operational efficiency and business impact.

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.

PROJECTS

Diabetic retinopathy
- Trained a CNN model to detect and classify diabetic retinopathy, achieving 78.5% accuracy on a Kaggle dataset, and deployed it on Anvil for web-based image classification with immediate predictions.

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.

Audio To Insights
- Engineered an end-to-end GenAI audio analytics pipeline converting 10,000+ minutes of raw audio into structured transcripts, enabling multilingual translation using Gemma and generating live insights via Ollama (Gemma 3B), reducing manual analysis effort by 70%.
- Streamlined a real-time analytics layer by integrating MongoDB with live Power BI dashboards, improving decision-making turnaround time by 50% through automated KPI tracking and sentiment insights.
- RAG-based conversational chatbot using vector search orchestration in n8n with Gemini embeddings, achieving 85%+ contextual response accuracy and reducing query resolution time by 40%.

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

LANGUAGES

English | Malayalam | Spanish | Hindi | Sanskrit