Marlakunta Kedhareswer Naidu

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Skills Summary

- **Languages:** Python, Html, CSS, Sql, ML, DL and AI
- **Tools/Platforms:** MySQL, Tableau, Power BI, Google Collab, Kaggle, and Hugging Face
- **Soft Skills:** Leadership, Team Player, Communication, Adaptability
- **AI Tools:** v0, Lovable, Cursor, Trea, Firebase Studio, Windsurf, ChatGpt, Claude

Experience

- **Outlier.AI** NOVEMBER 2024 - JANUARY 2025

  AI Evaluator, AI Trainer - Individual Contractor
  - Contributed to the training and improvement of generative AI models by evaluating mathematical content.
  - Assessed the factuality, relevance, and quality of AI-generated text within the mathematics domain.
  - Crafted and answered subject-specific questions to enhance the accuracy of AI outputs.

- **PSYLIQ** JANUARY 2024 - FEBRUARY 2024

  Data Analyst Intern
  - Worked on Employees HR Data- cleaned, stored and gathered insightful information made compelling visualizations using MySql ,Python and Power BI.
  - Developed data visualizations using Power BI to interpret complex datasets, enhancing decision-making processes and improving data comprehension by **25%** within a month internship period.

Projects

- **ThesisFlow-AI** JANUARY 2025 - AUGUST 2025

  HTTPS://THESISFLOW-AI.VERCEL.APP/
  - Developed an AI-powered academic research platform integrating literature exploration, intelligent summarization, and real-time collaboration features for researchers and students.
  - Built collaborative tools—project planner, real-time chat, and Gantt charts—with persistent sessions via React, Node.js, and WebSocket integration.

- **Endoscopic Image and Video Enhancement using Deep Learning** JANUARY 2025 - MAY 2025

  HTTPS://GITHUB.COM/Kedhareswer/Endoscopy-Image-Enhancement
  - Engineered a deep learning pipeline to enhance low-resolution endoscopic imagery using super-resolution, denoising, and segmentation.
  - Employed **U-Net** for segmentation and **CNN-based super-resolution model**; evaluated using PSNR and SSIM for medical-grade quality assurance.
  - Achieved **PSNR improvement** of **7–18 dB** and **SSIM scores** consistently above **0.93,** ensuring high-quality medical image restoration.

- **QuantumPDF ChatApp** SEPTEMBER 2024 - MARCH 2025

  HTTPS://GITHUB.COM/Kedhareswer/QuantumPDF_ChatApp, HTTPS://QUANTUMN-PDF-CHATAPP.NETLIFY.APP/
  - Engineered a retrieval-augmented generation (RAG) chat application that integrates PDF processing with a vector database to enable intelligent, document-aware question-answering.
  - Optimized document analysis pipeline with adaptive chunk sizing (~**200–1000 tokens** per chunk), real-time quality metrics, and vector database integration (support for Pinecone, ChromaDB, Weaviate, and local storage).
  - Achieved highly accurate retrieval: semantic search **precision** up to **92%** and response latency **<5.2 seconds** per query (benchmarked with up to 5,000 PDF chunks).

Certifications

- Neo4j Certified Professional from Neo4j JULY 2025
- Python for Data Science by Infosys MAY 2025
- AWS APAC - Solutions Architecture Job Simulation by Forage DECEMBER 2024

Education

- **Lovely Professional University** PUNJAB, INDIA

  Bachelor of Technology - Computer Science and Engineering.

  Data Science (AI & ML); **CGPA: 7.71** SEPTEMBER 2021 - JULY 2025

- **Sri Siddhartha Junior College** MADANAPALLI, INDIA

  Intermediate; **Marks: 889** JULY 2019 - JUN 2021

- **Vijaya Bharathi English Medium High School** MADANAPALLI, INDIA

  Matriculation; **GPA:9.5** JUNE 2018 - MARCH 2019