

KOLAPALLI VENKATA MURALI KRISHNA

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[Github](#) | [Linkedin](#)

EDUCATION

MS IIT Hyderabad, Information Technology | CGPA:**8.27** | Percentage(%): **86-90**

[July 2018 - June 2020]

BE Osmania University, Electronics and Communications Engineering

[August 2012 - July 2016]

TECHNICAL SKILLS

Skills: Java, Python, PostgreSQL.

Knowledge of: HTML, CSS, Shell Script, JS, VueJS

Frameworks & Technologies: Spring Boot, Redis, LDAP, Vault, Solr, Rabbit-MQ, Docker, Azure DevOps, GitHub Actions

Hands-on projects: Text Mining & Analysis, Data Visualization, Data Analysis, Integration of services, Chat Assistant

Project Management: GitHub, Google Colab, Azure Devops **OS:** Linux, MacOS **Others:** OpenAI, Azure OpenAI, Claude

WORK EXPERIENCE

- [Modak Analytics](#), Hyderabad— **Software Development Engineer (SDE)** [July 2020 - Present]
 - Designed and implemented new features, as well as developed APIs from scratch for the backend framework ([FIRE SHOTS](#)) as a part of the Product Core Team ([NABU](#)).
 - Designed microservices based on specific needs and developed fresh **REST APIs** by considering different usage scenarios and predefined text structures using [string templates](#).
 - Created monitoring dashboards APIs for diverse pipeline types and executive-level dashboards for job metric displays.
 - Designed **data models and JSON structures** to establish workspaces, pipelines, and data flows through an intuitive drag-and-drop process, enhancing efficiency in both pipeline creation and orchestration.
 - Created an **Embedding Vector Database** by processing diverse document types, subsequently employed for generating artificial intelligence through search functionality utilizing **OpenAI, Azure OpenAI & Claude** APIs.
 - Developed a product-related information Assistant and built an Advanced Query Tool that generates user-input queries for metadata database retrieval based on **RAG (Retrieval Augmented Generation)** Framework in Python & Java.
 - Proficient in crafting queries, integrating data model modifications, and adeptly handling tasks like unit testing, **RCA, deployments, and bug** resolution. Written **testing scripts** to schedule & test multiple pipelines **asynchronously**.
 - Showcased exceptional communication, presentation, and mentorship abilities while effectively multitasking and fostering collaborative teamwork. In short, engage with everyone to work in a much more efficient & creative way.
 - Completed a project that crawls social welfare data to create vector and information databases. Also developed an assistant using techniques like **RAG, function calling, and TTS** for user-input-based information retrieval.
- **Entrepreneurship Experience: Construction Business Owner** [Jan 2017 - April 2018]
 - I oversaw the construction of six houses in under 18 months, creating blueprints for new structures and efficiently coordinating and managing resources.
- **Intern at Research Center Imarat([RCI](#)), Hyderabad** [Jan 2016 - April 2016]
 - Design and Development of Real-Time Multitasking MicroKernel for ARM7TDMI at Research Center Imarat (RCI), Hyderabad | C, Keil uVision 4.0. Designed the near-minimum amount of software that can provide the mechanisms needed to implement a real-time operating system.

AWARDS AND APPRECIATION:

- Received **Rising Star Award** for 2022. [click here](#)
- Received **The Modak Orion Annual Award** for the year 2021. [click here](#)
- Winner of the Poster Competition for 75th Independence Day. [click here](#)

CERTIFICATION(S):

- **LCSA:** Learned real-time vulnerability finding techniques and preventing malicious attacks at [Lucideus Pvt Ltd.](#) (Delhi)

FEW ACADEMIC PROJECTS:

- **Product Recommendation and Analysis using Text Mining:** Recommending products to e-commerce platforms, Manufactures and Customers based on consumer reviews by implementing **Sentiment Analysis and Topic Mining** Models.
 - **Astronomical Calculator:** Developed a high-precision calculator for measuring astronomical values and unit conversions. Built with **Java** and JavaFX
 - **WortSpiel:** Created an Android word game to enhance vocabulary and display user progress. Developed using **Android Studio & Java**.
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