

Favas M

Annolive AI | Indian Institute of Technology Madras
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Summary

Data Scientist proficient in large language models (LLM), Generative AI, and natural language processing. Demonstrated ability to deliver valuable insights through data analytics, with a solid quantitative background. Skilled in document AI, topic modeling, and text matching algorithms.

Expertise: RAG, LLM, NLP

Professional Experience

Annolive AI

Co-Founder, Head of AI

Calicut, India

April 2024 – present

- Designed, developed, and sold an AI-assisted data annotation solution that ensures privacy compliance while optimizing the labeling process for AI teams working with sensitive data.
- Developed and trained a multi-label classification model to categorize SEC notes into predefined categories, using a combination of transfer learning and enhanced architecture with an F1 score of 0.9
- Engineered a solution to automatically update an e-commerce website using web scraping, text matching, data transformation, and LLMs, saving the client over 2,500 hours of work.
- Built a RAG solution to automate the dataset generation for finetuning an LLM for the financial compliance documents

Tiger Analytics

Data Scientist

Chennai, India

January 2024 – April 2024

○ LLM/NLP Team

- Created a library to automate the generation of predefined code templates for diverse NLP/LLM applications
- Developed a QnA system for in-house project documents into chatbots using Langchain with an accuracy of 0.8
- Engineered a CoT chatbot for training and assisting in-shop sales executive by creating personalized recommendations for customers based on inventory
- Built an AI enabled RAG chatbot to be used by the field service agent of an HVAC company while repairing machines

Senior Data Analyst

December 2021 – December 2023

○ Advanced Analytics Research Team

- Extracted underlying data from different kind of documents like handwritten texts, and invoices with an F1 of 0.78
- Gained hands-on experience with libraries for document understanding(LayoutLM), QnA(Donut) and different embeddings like BERT, sentence-transformers
- Created an embedding based deep learning model to map products with similar description that supports multiple embeddings like BERT, sentence-transformers with an F1 of 0.84.
- Worked on a machine learning model for the analysis of the aspect based sentiment from product reviews
- Implemented a transformer based algorithm for efficient topic clustering within documents and facilitated the visualization of these topics

○ Consumer Packaged Goods (CPG) Team

- Analyzed the level impact of different business decisions on the sales and customer acquisition for different time scales.
- Build predictive models using various machine learning tools to forecast the sales and the requirements for different products.
- Designed algorithm to track and detect customers prone to attrition based on the customer order patterns.
- Conducted a market basket analysis to uncover the associations between different products. Developed an algorithm to create combinations of products to ease the shopping.

Micron Technologies Inc

Solutions Engineer

Hyderabad, India

August 2020 – August 2021

- Applied data analytic and optimizations techniques in manufacturing to improve yield and reliability.
- Developed and Deployed scalable code into production using CI/CD tools.
- Responsible for investigating the failures and yield losses by analyzing the data for failure patterns.

Education

Indian Institute of Technology Madras

Master of Technology, GPA - 8.62/10

Chennai, India

2018 - 2020

Indian Institute of Technology Madras

Bachelor of Technology, GPA - 8.10/10

Chennai, India

2015 - 2020

Kerala State Board

Class 12th, GPA - 9.62/10

Kerala, India

2012 - 2014

Central Board of Secondary Education

Class 10th, GPA - 10/10

Kerala, India

2011 - 2012

Scholastic Achievements

- Scored **99 percentile** in the CAT 2021 and secured admission to the top business schools in India. 2021
- Awarded with Charpak Scholarship for Exchange program in France 2018
- All India Rank - 1820 in JEE 2015, taken by 1.3 million students (99.86 percentile) 2015

Research Projects

M.Tech Project

Guide: Prof. Ranjith Mohan

IIT Madras

July 2019 – June 2020

- Developed an autonomous quad-copter capable of navigating in GPS-denied environments.
- Implemented SLAM based algorithm that analyse the image data from a stereo-vision based setup to build a 3D representation of the surroundings.

Fire Fighting Drone

Guide: Prof. Ranjith Mohan

IIT Madras

April 2019 – June 2019

- Worked on an Autonomous UAV with an onboard RPi and Pixhawk as a flight controller for outdoor firefighting missions.
- Developed a GPS-based navigation system that enables the Aerial Vehicle to find the path and navigate to the fire spot.

Relevant Courses and Skills

○ Courses

- | | | |
|---------------------------|----------------------|--|
| ○ Artificial Intelligence | ○ Deep Learning | ○ Natural Language Processing |
| ○ Machine Learning | ○ Prompt Engineering | ○ Generative AI with Large Language Models |

○ Skills

- | | | |
|-------------------|----------------|-------------------------|
| ○ LoRA, Langchain | ○ Git, Azure | ○ Transformers, PyTorch |
| ○ Spacy, LayoutLM | ○ BERT, OpenAI | ○ Matplotlib, Plotly |