Sowmya Kanuri
Product Development Engineer

Computer Science Engineer graduated from Mahindra École Centrale with comprehensive programming and algorithmic skills and over 2.5 industry experience in designing and implementing software application which are production-scalable. Strong engineering professional with practice in applying Machine Learning algorithms, Natural Language Processing and Deep Learning techniques in enhancing end products for customers.

Work History

2018-10 - Current

Product Development Engineer
Phenom People, Hyderabad, Telangana

- Built an FAQ service handler for chat-bot using **Deep Learning algorithms**. It is a **Question-Answer System** primarily developed by **fine-tuning** available **Transformer** based SOTA **language models** to our data-set.
- Deployed a **Small Talk** service for chat-bot to emulate human interactions which is a **similarity search engine** built using SOTA models.
- Designed an end-to-end **Knowledge Management System** for our recruiters to manage data (such as FAQs) and configurations related to bot. It provides the flexibility to do semantic search, CRUD operations using search engines such as **Elasticsearch** and **MongoDB**.
- Set up a **Consumer Service** to capture day-to-day interactions happening in the bot using **Kafka**.
- All our services are based on **REST architecture** and run within **Docker**.
- We have 180+ Fortune 500 companies use our bot and have moved from 0 to 100k users within a span of 8 months.

2018-06 - 2020-09

Machine Learning Intern
Phenom People, Hyderabad, Telangana

Contact

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Skills

Deep Learning

Machine Learning

Natural Language Processing

Object Oriented Programming

Programming (Python, Java)

Database Management

Web Services

Version Control (Git)

- POC on building a **Spell-checker for chat-bot** using various in-built python libraries, Elasticsearch techniques, Deep Learning algorithms.
- Worked on **User Intent Classification** and **Dialogue Management** using open-source framework **RASA** with their two main components **RASA-NLU** & **RASA-Core.**

2017-11 - 2018-02

Machine Learning Intern

Gaia, Hyderabad, Telangana

- **Speech Recognition** - Categorization of users based on their age, gender and emotion by using their tone. Using Google's **TensorFlow** API for Speech Recognition.

2017-06 - 2017-07

Machine Learning Intern

Tata Consultancy Services, Hyderabad, Telangana

- **Predictive Analytics and Object Identification using Machine Learning** - Built a web interface to identify objects within the uploaded images (done using Google's **TensorFlow** API) and also built a model which is used for weather prediction (**Image Processing** done using **Open CV** libraries)

2016-06 - 2016-07

Software Engineering Intern

Tech Mahindra, Hyderabad, Telangana

- **Business Intelligence** - Basic training in Microsoft's Business Intelligence tools – **SSIS** (Sequel Server Integration Services) and **SSRS** (Sequel Server Reporting Services)

Education

2014-08 - 2018-05

Bachelor of Technology: Computer Science Engineering

Mahindra École Centrale - Hyderabad

- Graduated with **8.9 GPA**

2012-06 - 2014-07

Intermediate

Narayana Junior College - Hyderabad

- Coursework in Mathematics, Physics and Chemistry
- Graduated with **95.9%**

2011-05 - 2012-06	**10th Grade**
	Delhi Public School - Hyderabad
	• Graduated with **10/10 GPA**

Certifications

2017-08	Data Science

Projects

- **Recommender Systems** - Building a **smart music playlist** (in Python) using **content-based filtering** technique.
- **Cloud Computing** - Worked on **multi-objective evolutionary algorithms** for scheduling of jobs related through DAGs on heterogeneous cloud clusters.