Venkata Phani Siva Sankar Emany

AI Research Engineer(He/Him)

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EDUCATION

- **Case Western Reserve University** — Cleveland, OH
  Master of Science in Computer Science; GPA: 3.60 — *Jan. 2022 – Ongoing*

- **Dhirubhai Ambani Institute of Information and Communication Technology** — Gandhinagar, India
  Bachelor of Engineering in Information and Communication Technology; CPI: (6.76/10.0) — *Aug. 2010 – July. 2015*

EXPERIENCE

- **Byjus** — Bengaluru, India
  Research Engineer — *1 year(s)*
  - **Osmo**: Osmo is a phygital tool which enables hands-on learning for preschool kids. Worked on training models and creating APIs for Spanish and English character OCR models.
  - **Byjus Learning Center**: BLC is an after school tuition program for middle and high school students. Created APIs to scan pages using Byjus Learn Station devices. Trained word level OCR models for transcribing answer sheets.

- **Quadratyx** — Hyderabad, India
  Senior Data Scientist — *2 year(s)*
  - **Pharmacy Task Automation**: Service for automating data-entry processes in Pharmacies owned by a Canadian healthcare services provider. Involved in designing and implementing APIs for prescription recognition, OCR, information retrieval and automated data entry
  - **Roadmapping Digital Transformation**: Helped devise AI driven use cases to create a unified platform of services for a Canadian healthcare services provider. Defined data requirements and analysed data availability for implementing said use cases.
  - **Modeling and Automating Non-Performing Asset Valuation**: Built pipelines for a Colombian asset management company to automate the ingestion of data, creation of reports and projection of recovery curve patterns using Multi-Output Regression Models and Time Series Analysis in order to aid the decision makers in purchase of Non-Performing loans and reduce the data science effort spent in data preparation
  - **PySpark Training**: Designed the material and conducted a week long intensive training session with the data science and data engineering teams of a Colombian energy distribution company to introduce them to Big Data and teach them applications of PySpark in a variety of use cases

  Data Scientist — *1.5 year(s)*
  - **Named Entity Recognition on financial documents**: Built APIs for a large Indian private bank to extract named financial entities and classify tables into multiple relevant categories based on text extracted from scanned financial documents
  - **Big Data Lake for Pharmacovigilance Analytics**: Designed and implemented a custom data genome to integrate electronic health records and dispensation records for a Colombian pharmaceutical organization. Extracted key medical information from raw Spanish text and performed context analysis on extracted elements. Extracted rules indicating multi-drug usage, medical condition and demographic information associated to adverse medical outcomes using the above genome

SKILLS

- **Programming Languages**: Python, R, C++, SQL, Java

- **Technologies**: Kafka, Nifi, Airflow, Hive, Spark, SQL and NoSQL databases

- **AI & ML toolkits**: Tensorflow, Scikit-Learn, Numpy, Pandas, Matplotlib, OpenCV, Spacy

- **Platforms**: Linux, AWS, Azure, Databricks

- **API tools**: Django, Flask, FastAPI