KARTHIK YELURIPATI

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EDUCATION

New Jersey Institute of Technology *Newark, New Jersey*
Master of Science in Data Science *Sept 2022 – May 2024*

- GPA: 3.5/4.0
- Relevant Coursework: Machine Learning, Applied Statistics, Big Data, R, Deep Learning, NLP, Web Dev, SAS.

Chaitanya Bharathi Institute of Technology *Hyderabad, India*
Bachelor of Engineering in Electrical and Electronics Engineering *Aug 2017 - Jun 2021*

- Relevant Coursework: Statistical Methods, Simulation Techniques, Artificial Intelligence, Machine Learning.
- **Research work:** Electrical Demand Forecasting for Residential Sector Using Long Short-Term Memory **[IEEE]**
- Utilized *LSTM, MLR, SVR*, and *Auto ARIMA* to forecast and *LSTM* outperformed other models with **94%** accuracy.

PROFESSIONAL EXPERIENCE

Software Engineer Intern *Englewood Cliffs, New Jersey*
NBCUniversal *Sep 2023-Present*

- Automated test cases for NBC News websites using **Selenium, Java,** and **TestRail**.
- Executed back-end testing and implemented automated testing procedures for the APIs using **Java** and **Postman**.
- Contributed to the development of an internal automation framework using **JavaScript**.

Data Science Intern *River Vale, New Jersey*
STEERus *Jun 2023-Sep 2023*

- Developed a scalable web application for personality trait and talent assessments using **JavaScript** and **AWS**.
- Implemented backend infrastructure on **Amazon RDS** with **MySQL** for efficient data storage and management.
- Provided critical insights, and demographic comparisons using **Tableau** and streamlined the reports to user profiles.

Software Developer *Newark, New Jersey*
New Jersey Institute of Technology *Feb 2023-Jun 2023*

- Collaborated with Prudential Financial to build an internal infrastructure using **Python** and **REST APIs**.
- Automated system processes with **Ansible API**, ensuring seamless data flow from internal projects to **Splunk**.
- Designed **Splunk dashboards** to streamline the monitoring of monthly project checkpoints for efficient analysis.

Data Science Research Assistant *Newark, New Jersey*
New Jersey Institute of Technology *Nov 2022-Jan 2023*

- Applied **natural language processing** like *Topic Modeling* to discern abstract themes within Twitter datasets.
- Conducted data preprocessing, tokenization, and model training using **Python** on large-scale Twitter datasets.
- Achieved a significant **92%** accuracy in analyzing and identifying abstract topics within the datasets.

Programmer Analyst Trainee *Hyderabad, India*
Cognizant Technology Solutions *Dec 2021 – Jul 2022*

- Proficiently trained in **Bash**, **Python**, **MySQL**, **Java**, **Hadoop**, **Hive**, **Scala**, **Spark**, **Pig**, and **Tableau**.
- Conducted in-depth analysis of extensive medical datasets using **Python** and **Hadoop** for **20** impactful use cases.
- Designed and implemented data pipelines for large datasets integrating **Apache Kafka** for real-time streaming.

Research Intern *Hyderabad, India*
National Institute of Technology A.P *May 2020 – Aug 2020*

- Developed **MERN** stack application for electric vehicle users facilitating real-time slot booking and availability.
- Applied **machine learning** to enhance charging strategies by modeling *scheduling*, *clustering* and *forecasting*.
- Investigated stochastic charging patterns and achieved an accuracy of **90%** in short-term load forecasting.

SKILLS & TOOLS

Programming Languages: Python, Java, MySQL, R, Bash | **Deep Learning**: Large Language Models, NLP, Time Series Analysis | **Web**: Figma, JavaScript, React, Selenium, GraphQL | **Big Data:** Hadoop, Hive, Spark, Pig, Kafka, Scala, VMs | **Cloud Computing:** AWS EC2, S3, RDS | **Libraries & Tools:** TensorFlow, Keras, Sci-Kit, PyTorch, NLTK, SpaCy, OpenCV | **Viz Tools & Miscellaneous:** Tableau, Statistics, OOPs, A/B Testing, Git, GitHub, Rest APIs, Docker, Jenkins.