

KARTHIK YELURIPATI

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EDUCATION

New Jersey Institute of Technology
Master of Science in Data Science

Newark, New Jersey
Sept 2022 – May 2024

- GPA: 3.5/4.0
- Relevant Coursework: Machine Learning, Applied Statistics, Big Data, Data Analytics using R and Deep Learning.

Chaitanya Bharathi Institute of Technology
Bachelor of Engineering in Electrical and Electronics Engineering

Hyderabad, Telangana
Aug 2017 - Jun 2021

- Relevant Coursework: Programming and Problem Solving, Statistical Methods, Artificial Intelligence, Machine Learning.
- Extra-Circular: President for IEEE-Power Energy Society at CBIT; Management Head for Robotics&Innovation club at CBIT.

PROFESSIONAL EXPERIENCE

Software Developer

New Jersey Institute of Technology
Technologies: Python, Java, AWS, Ansible, Ansible Tower.

Newark, New Jersey
Feb 23-Present

- Provided **DevOps** services to Prudential Finance as part of the NJIT Development team.
- Worked on Postman, and REST APIs and retrieved data from the Ansible Tower API using **Python**.
- Developed CI/CD pipelines on **AWS** and performed automation using Ansible and Ansible Tower.

Data Science Research Assistant

New Jersey Institute of Technology
Technologies: Python, SQL, Natural Language Processing.

Newark, New Jersey
Nov 22-Jan 23

- Developed Deep Learning models and used **Topic Modeling** to assess abstract topics from large twitter datasets.
- Performed Data cleaning over the raw tweets and trained the NLP model which achieved **92%** accuracy.
- Increased the research efficiency and precisely classified the tweets by upscaling the accuracy by **3%**.

Programmer Analyst Trainee

Cognizant Technology Solutions
Technologies: Bash, Python, MySQL, Java, Hadoop, Hive, Scala, Spark, Pig, Tableau.

Hyderabad, India
Dec 21 – Jul 22

- Worked on projects in the fields like Life Sciences&Finance and used big data tools to analyze the large datasets.
- Analyzed large datasets using **Python** and **Scala**, presented more than **20 use cases** and used **Tableau** for reports.
- Worked for Warner Bros Pvt Ltd. in their Support group and scripted **YAML** playbooks and **JSON** Configuration files.

Research Intern

National Institute of Technology-Andhra Pradesh
Technologies: Java Script, React.JS, Node.JS, MySQL, REST APIs.

Andhra Pradesh, India
May 20-Aug 20

- Led a team of four and researched the practice of planning and developed an app to ease scheduling.
- Developed a full stack android app to ease the use of electric vehicles using **React native** and **MySQL** for Database.
- Improved scheduling efficiency of charging slots using **REST APIs** and reduced the booking conflicts by **15%**.

SKILLS & TOOLS

- **Programming Languages:** Python, SQL, R, Bash
- **Big Data:** Apache Hadoop, Apache Hive, Apache Spark, Pig, Kafka, Scala.
- **Cloud Computing:** AWS EC2, Redshift, lambda, Microsoft Azure
- **Libraries & Tools:** TensorFlow, Keras, Sci-Kit, PyTorch, Pandas, NumPy, NLTK, SpaCy, OpenCV
- **Viz Tools & Miscellaneous:** Power BI, Tableau, Statistical modeling, A/B Testing, APIs, Jenkins, K8's, Git.

PERSONAL PROJECTS & RESEARCH PUBLICATIONS

Electrical Demand Forecasting for Residential Sector using Long Short-Term Memory [\[Research\]](#)

- Forecasted electrical load demand in a residential sector using LSTM, MLR, SVR &Auto ARIMA.
- Analyzed their predicting abilities and observed LSTM to surpass other models by achieving an accuracy of **94%**.

Speech Enhancement using Generative Adversarial Networks [\[Research\]](#)

- Incorporated techniques such as spectral subtraction and Wiener filtering to further improve the speech signals.
- Utilized various evaluation metrics such as PESQ, STOI and SNR and achieved the accuracy of **86%**.