ANANTHA KRISHNA CHILAPPAGARI

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# EDUCATION

## Master of Science ( MS ),Data Science

*University Of North Texas , Denton, TX*

December 2024

CGPA: 4

Mastered advanced concepts in data science and machine learning, including machine learning algorithms, deep learning architectures, and natural language processing techniques

**Bachelor of Technology ( B.Tech ),Computer Science ( CSE )** *Keshav Memorial Institute of Technology, TS, INDIA* **EXPERIENCE**

## Software Engineer

*Constella Intelligence Private Limited*

August 2022

CGPA: 3.5

September 2022 - June 2023

Hyderabad

* Streamlined data pipeline migration from Airflow to AWS Stepfunctions, triggered by Lambda function on file upload, cutting down processing time by 40% for rapid insights
* Implemented automatic scaling for the ECS load balancer, effectively handling large files and reducing resource idle time by 20%.
* Utilized Python and PySpark in EMR processing, enhancing data processing and decreasing processing costs by 15%
* Improved system resilience with automated alerts for EMR and ECS clusters, reducing operational overhead by 25%.
* Achieved seamless state management of breach files through ECS updates, ensuring accurate tracking and reducing manual intervention by 50%

## Software Engineer Intern

*Constella Intelligence Private Limited*

February 2022 - August 2022

Hyderabad

* Made substantial contributions to machine learning projects, achieved 93% accuracy in email classification models (malicious or not)
* Elevated real-time threat assessment through a Flask REST API, interfacing with trained ML models for harm ratings on a 0–1 scale, guided by predefined rules
* Exercised diverse clustering techniques on dark web breached data, yielding actionable insights on cybersecurity risks and finding their impact and level

# SKILLS

Python | Data Science | Data Analysis | Statistics | Computer Vision | Machine Learning (ML) | Scikit-learn Deep Learning (DL) | Amazon Web Services (AWS) | Natural Language Processing (NLP) | TensorFlow | Keras Numpy | Pandas | Matplotlib | Problem Solving | MySQL | Linux | Git | Flask | Data Exploration | Prompting **CERTIFICATIONS**

* Certified in deep learning, Coursera by visionary Andrew Ng shows a strong foundation in neural networks
* Math Specialization certification in Linear Algebra, Calculus and Statistics on Coursera, by Louis Serrano
* Certification in Python and SQL for data science, Essential for data-driven decision-making, from LinkedIn
* I achieved proficiency in business English at the Vantage level, certified by Cambridge

# PROJECTS

Title: Offensive detection in Social Media Posts | Major Project | January– April 2022

* Collaboratively constructed a model that actively analyzes and classifies social media posts in real-time, resulting in a 35% reduction in offensive content visibility and a 50% increase in user engagement
* We secured an impressive 85% accuracy rate in post-classification, demonstrating the precision of NLP model.

Title: Driver Drowsiness Detection | Mini Project | July-November 2021

* developed a real-time driver drowsiness detection system, utilizing convolutional neural networks (CNNs) for image analysis with an impressive 95% model accuracy rate
* Preprocessed data for CNN-driven driver drowsiness detection, achieving remarkable accuracy.