

CHENCHAI AH MEKALATHURU

Data Scientist / Machine Learning Engineer

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EXPERIENCE

Graduate Research Assistant - 2AI lab

USD, Vermillion (Aug 2023 to Present)

- Working on Liquid Neural Networks, gained knowledge on multiple research papers (CTRNN, Neural ODE, NPCs) to build models on LNN, also focusing on state-of-the-art architectures in LLM's, NLP, Transformers, Generative AI which is resulting in an 80% accuracy in model performance at least.
- Involved in 2 Liquid Neural Networks projects for building, training, and evaluating, handling a diverse range of projects to be part of mathematical software building. Almost more than 60% research has been completed already in last 6 months. Now I am in the process of building the model for novel usage.
- Guiding 10 under graduation students and resolving their doubts in ML and AI subjects, while efficiently managing lab operations as a tech savvy.

Senior Manager Business Development-BYJUS

Hyderabad (November 2019 to July 2023)

- Led a top-performing team of managers and BDA more than 60 in the count, ensuring they exceeded company expectations.
- Given the responsibilities of the K12 project of Akash and was responsible for more than 15 branches all over 2 states.
- Consistently gave 35% more in revenue than the company's average by applying agile and generated more than 5 million dollars as a team in a year.
- Succeeded in making 15+ managers from my team, surpassing numbers contributed by other senior managers by 40%.
- Privileged to collaborate closely with organization presidents designing and implementing strategic initiatives as they considered me the top 5%.
- Promoted rapidly to Manager, resulting in a 50% increase in team productivity. Achieved 40% product revenue growth in three months by planning and launching four new key features.
- Gave training on CRM software usage, which gave a 25% increase in productivity.
- I embrace feedback, foster an inclusive culture, and demonstrate adaptability, committing to shared success in my first professional job.

SKILLS

Languages: Python, Java, C++, C, SQL, Kotlin, HTML, CSS, JavaScript, Cuda, Julia, R

Libraries: TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, Keras, Seaborn, SciPy, Tableau, OpenCV

Technologies: MySQL, MongoDB, Android, Git, Docker, Kubernetes, CI/CD, AWS, Hadoop, Azure

PROJECTS

Bitcoin Predict - Time Series Forecasting, Python, TensorFlow [\[GitHub Link\]](#)

- Built a comprehensive machine learning model that predicts Bitcoin prices using historical time series data.
- Enhanced Forecast Accuracy: Accomplished a 20% improvement in prediction accuracy as measured by mean absolute percentage error (MAPE) by employing LSTM and 1D CNN models, adept at handling complex temporal data.
- Improved Data Utilization: Achieved a 30% increase in the model's ability to capture market trends as assessed by its trend-following index, by utilizing advanced windowing techniques in data preprocessing.
- Reduced Model Experimentation Time: Accomplished a 40% reduction in time spent on model trials as evaluated by the overall duration of model experimentation phases, by integrating assembling techniques and effective model checkpoint strategies.
- Enhanced Market Insight: Provided valuable predictive insights into Bitcoin's future price movements, impacting potential cryptocurrency investors and traders by offering a data driven tool for market analysis.

Predictive Modeling & Algorithm Development - LSTM, RNN, ARIMA [\[GitHub Link\]](#)

- Predicted stock price with 98% accuracy to enable the company to make informed investments.
- Determined optimal pricing strategies to facilitate the management of funds & achieve revenue goals.
- Made multiple touch sensitive ML systems in all the office floors to improve the company's safety networks.
- Devised high-performance ML systems to detect abnormality, intrusion, fraud, masquerading, malware, etc.
- Developed an algorithm to understand customer behavior leading to 95% success in targeted marketing campaigns.

Web Scraping, Data Visualization & Regression Modeling, interpret data - Matplotlib, Scikit-learn [\[GitHub Link\]](#)

- Developed and executed a machine learning project to predict outcomes using Python, involving web scraping with BeautifulSoup, data visualization with Matplotlib and Seaborn, and regression modeling with Scikit-learn.
- Automated data extraction from various sources, cleaned, and preprocessed over 20000 data points to ensure quality input for analysis.
- Applied exploratory data analysis using statistics to identify key trends and patterns, followed by the implementation of linear and random forest regression models, achieving an R-squared value of 0.85.
- Presented actionable insights to stakeholders, improving decision-making processes, and contributing to strategic goals.

EDUCATION

Masters in AI Specialization

(Aug 2023- May 2025)

University Of South Dakota (2023-2025)

GPA: 4.0

Course Work: Gained skills in Artificial Intelligence, Machine Learning, Generative AI, Data Processing, Natural Language Processing, Data Modeling, Databases, Web Scrapping, Data Analytics, Big Data Concepts: Algorithms, Data Structures, oops, Probability and Statistics, Linear Algebra, Calculus Software Cycle, Agile, Applied Mathematics.

Bachelor of Computer Science

(Aug 2015- Dec 2019)

Lovely professional University (2015-2019)

GPA: 3.5

Course Work: Gained skills on Programming, Web Development, Android Development, Java, C++, R, C, Software Engineering, SQL, NoSQL, Database, Data Structures, Algorithms (DSA), Flask, Express, Node.js, Django, JUnit for Python, React.js, REST

SUMMARY

A Seasoned senior manager with robust background overseeing 60+ employees, I deliberately shifted from high-paying and esteemed position to pursue my passion in the computer science industry. This decision, while challenging, reflects my unwavering commitment to personal and professional growth. Eager to prove my capabilities and replicate past successes in a new domain, I am actively seeking an opportunity to start from scratch and emerge as a hero in the ever-evolving landscape of the computer science industry.

PASSIONS

Machine Learning (Deep Learning, Natural Language Processing, Large Language Models, Generative AI, Transformers), Artificial Intelligence, Data Science, Data Processing

HOBBIES

Movies and Series, Gym, Tutoring, Video Games, Podcasts

LANGUAGES

English, Telugu, Hindi, Punjabi