Lohith Channa

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SUMMARY

As an Artificial Intelligence graduate student, I bring a robust background in computer science combined with a passion for solving complex problems through data analysis and machine learning. My academic and project experiences range from enhancing speech recognition algorithms to predicting healthcare outcomes and detecting credit card fraud. I thrive in dynamic environments that challenge my analytical skills and creativity. Committed to leveraging my technical expertise to contribute meaningfully to your team, I am eager to help drive innovative solutions and achieve shared goals in the evolving field of data science.

EDUCATION

Long-Island University, Brooklyn, NY 2025

Masters, Artficial-Intelligence

College, location 2022

Bachelor of Technology, Computer Science and Engineering
Relevant course work:

PROFESSIONAL EXPERIENCE

AI Engineer Intern Jan 2025 -Apr 2025

The Best You (Dating Application)

- Designed and implemented prompt engineering solutions for bio enhancement features
- Developed Python-based API integration connecting web application frontend with ChatGPT
- Created scoring systems to evaluate and improve suggested user bios Collaborated with web development team to ensure seamless AI functionality integration

ACADEMIC PROJECTS

Spiking Neural Networks Implementation with Brian2: -

- Developed a comprehensive computational neuroscience project using Python and Brian2, implementing progressively complex neural network models
- Built and analyzed single neuron dynamics (LIF model), connected networks with 100 neurons, and implemented synaptic plasticity (STDP learning)
- Created a pattern recognition system using competitive learning that successfully distinguished between visual patterns
- Implemented biologically realistic neuron models (AdEx and Izhikevich) to compare with simplified models, demonstrating understanding of neuromorphic computing principles

Flight Delay Prediction

- Utilized Python, Pandas, and SciKit-Learn to develop a predictive model that forecasts airline delays, improving resource management and passenger satisfaction by analyzing historical data.

Chatbot Using GPT:

- Employed Python, OpenAI GPT, and Flask to create an interactive AI chatbot, enhancing user engagement through real-time conversational responses.

Credit Card Fraud Detection:

- Used Python, TensorFlow, and Keras to engineer a deep learning model that identifies fraudulent transactions with high accuracy, reducing false negatives in a heavily imbalanced dataset.

Healthcare Data Analysis:

- Analyzed healthcare data with Python, Pandas, and Matplotlib to predict disease outcomes, optimizing treatment recommendations and enhancing patient care with advanced analytics.

Implementing CTC in Speech Recognition:

- Enhanced speech recognition systems using the CTC algorithm with Python and TensorFlow, improving speech-to-text conversion accuracy.

Cats vs. Dogs Classification:

- Developed a convolutional neural network with Python, TensorFlow, and Keras to distinguish between images of cats and dogs, achieving over 95% accuracy.

Introduction to Data Mining:

- Demonstrated data mining concepts by applying multiple classifiers like Logistic Regression and Random Forest with Python, visualizing data interactions and model efficacy.

Logistic Assist:

- Created a logistics price management application using Python, incorporating machine learning to dynamically suggest optimal pricing, eliminating the need for intermediaries.

Restaurant Billing System:

- Developed a Python-based application for automating billing processes in small restaurants, using machine learning to recommend dishes based on customer preferences.

Dune Buggy:

- Built an IoT project, a remote-controlled car that can be operated globally via the internet, using Arduino-Uno.

SKILLS

Programming Language: Python, Java

Neural Networks: Experience implementing spiking neural networks (SNNs), biologically inspired neural models, and computational neuroscience simulations

Machine Learning: Experience with frameworks like TensorFlow or libraries like scikit-learn, depending on what was used in your credit card fraud detection and healthcare data mining projects.

Data Analysis: Proficiency in using Python libraries such as Pandas, NumPy, and seaborn for data manipulation and visualization.

Database Management: Knowledge of SQL or experience with database systems.

Artificial Intelligence: Exposure to AI techniques, which could include neural networks, NLP, or other AI-driven analysis from your projects.

Big Data Tools: Usage of tools like XGBoost, possibly Hadoop or Spark.

Deep Learning: Hands-on experience with deep learning frameworks, especially projects for tasks like speech recognition or image classification.

Software Development Tools: Experience with version control systems like Git, and development environments like Jupyter Notebooks or PyCharm.

Soft Skills: Problem solving, Analytical Thinking, Project Management, Communication, Adaptability.

CERTIFICATIONS

Certified AI Engineer **Apr 2025**

Product Manager Accelerator

- AI PM Bootcamp and AI Engineering Certification Program
- Demonstrated proficiency in AI engineering, machine learning, data science, and AI-driven solutions
- Completed comprehensive training in AI product management and development

Certified Pega Senior System Architect **Aug 2022**

- Advanced certification in Pega Platform development and architecture
- Expertise in designing complex enterprise applications and system integrations
- Proficiency in application lifecycle management and governance

Certified Pega System Architect **May 2022**

- Fundamental certification in Pega application development
- Skills in case management, UI design, and business process automation
- Knowledge of rule-based development and decision management