CHAITANYA DURGESH NYNAVARAPU

(312) 358-1090 cnynavarapu@hawk.iit.edu Chaitanya Durgesh Nynavarapu ChaitanyaDurgesh

EDUCATION

Illinois Institute of Technology, Chicago *Jan 2024 - Dec 2025 (expected)*
Master of Science in Computer Science
GPA: 3.2 / 4.0 (current)
Coursework: *Algorithms, Computer Networks, Software Engineering, Database Organization*

Sri Indu College of Engineering and Technology *April 2019 - June 2023*
Bachelor of Technology in Electronics and Communication Engineering
GPA: 3.1 / 4.0

SKILLS

Languages:	Java, Python, HTML/CSS, SQL
Frameworks & Tools:	Flask, SQLAlchemy, Keras, OpenCV, Pandas, NumPy, Matplotlib, TensorFlow, PyTorch
Techniques:	Statistical Analysis, Machine Learning, Deep Learning, Natural Language Processing

SUMMARY

Aspiring Software Development Engineer with a strong foundation in Computer Science and Electronics. Skilled in developing efficient database systems, implementing machine learning models, and creating user-friendly interfaces. Seeking an entry-level position to leverage technical skills and drive innovation in software development.

PROJECTS

FlightAware Database Application | *SQL, Flask, SQLAlchemy, HTML/CSS* *July 2024*

- *Engineered a comprehensive Airline Database Management System, boosting operational efficiency by 30%*
- *Crafted an intuitive web interface, slashing data entry time by 40% and enhancing user experience*
- *Optimized CRUD operations and complex query display, accelerating data retrieval by 50%*

Traffic Sign Recognition System | *Keras, OpenCV, Pandas, NumPy, Matplotlib* *May 2023*

- *Developed a CNN-based system achieving 89% accuracy in classifying 1,000+ diverse traffic signs*
- *Implemented real-time recognition, reducing misclassification rates by 20% for autonomous driving*
- *Enhanced data preprocessing and model training, cutting development time by 25%*

Restaurant Review Sentiment Analyzer | *NLP, Naive Bayes, TensorFlow, PyTorch* *June 2022*

- *Constructed an NLP model to analyze 1000+ restaurant reviews, extracting key sentiments and trends*
- *Utilized advanced text preprocessing techniques, including lemmatization and TF-IDF vectorization, resulting in a 15% improvement in model accuracy.*
- *Fine-tuned a Naive Bayes algorithm, attaining 85% accuracy in sentiment classification*
- *Evaluated deep learning architectures using TensorFlow and PyTorch against 3 traditional ML methods achieving a 12% increase in classification accuracy and 20% faster inference time*

EXTRACURRICULAR ACTIVITIES

- Assistant School Leader: Elected to represent and advocate for student interests
- Event Organizer: Spearheaded technical and non-technical events during undergraduate studies