# Anubuthi Kottapalli

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## EDUCATION

**The University of Chicago |** Master of Science Applied Data Science |Expected December 2025|GPA:4.0
***Coursework:*** Big Data, Time Series Forecasting, Algorithmic Marketing, Bayesian Machine Learning, GenAI
**PES University |** Bachelor of Technology in Computer Science Engineering |May 2024|GPA:3.92
***Coursework:*** Data Analytics, Machine Intelligence, Network Analysis and Minning, Database Management Systems

## SKILLS

**Languages**: Python (Panadas, Pyspark), R, C++;
**Database**: MySQL, MongoDB, SPLUNK
**Data Visualization**: Power BI, Tableau;
**Technical knowledge**: Machine Learning(NLTK, Scikit-learn, TensorFlow, Keras), Network Analysis, Data Minning, Statistics, Big Data(PySpark, SparkML, GCP), Forecasting (ARIMA ,SARIMA ,LSTM )
**Soft Skills:** Natural leader , Strategic Problem solver, Highly adaptable, Empathetic , Efficient with time, Collaborative team player, Resilient under pressure, Creatively driven.

## EXPERIENCE

**1. Evoke Technologies** | Data Science Intern -Capital Markets (AI & Financial Research) | Jun'25-Present

- Build predictive models using company fundamentals, technical indicators, and financial sentiment data to generate trading insights
- Apply NLP techniques to financial news, earnings call transcripts, and social media to extract actionable signals
- Collect, clean, and preprocess structured and unstructured market data to uncover predictive patterns using statistical and ML methods.
- Collaborate with quantitative researchers and AI experts, documenting methodologies and presenting findings to internal stakeholders.

**2.GlaxoSmithKline (GSK) |** Graduate Intern (Detection Engineering and Cyber Analytics) | Jan'24-Jul'24

- Programmed ServiceNow ticket triage page and automated the ticket creation using Streamlit-Python and Exploratory Data Analytics, to save **8.35 hours per day** and improve employee satisfaction.
- Collaborated on a User Entity Behavior Analytics project using Power BI to visualize and analyze anomalies in employee and machine behaviour.
- Drafted 20 detailed playbooks for detections made on SPLUNK and WIZ, outlining solutions to various cybersecurity issues and response processes

## RESEARCH AND PUBLICATIONS

1.**Bayesian Deep Learning for Diabetic Retinopathy Classification** | (Mary'25 – Present)
*Summary:* Developing a CNN with Bayesian linear layers and Monte Carlo Dropout to classify diabetic retinopathy into 5 stages with uncertainty-aware predictions and referral logic for ambiguous cases. Used: **PyTorch, Bayesian layers (Blitz), GANs, Diffusion Models, Monte Carlo Dropout**

2.**Lead-Vehicle Distance Estimation Using Forward Vision in Ego-Vehicles** | (Mar'25–Present)
***Capstone Project with Argonne National Laboratory Summary***: Designing a computer vision pipeline to estimate the distance to lead vehicles using monocular front-facing camera images. Incorporates privacy-preserving PII filtering to ensure compliance with data protection standards**.** Used**: GCP, Image Processing, Monocular Depth Estimation ,**

**3. Real-time Indian sign language translation to Hindi and Kannada** | (Jan'23-Dec'23) | IEEE Paper
*Summary*: Developed translator to translate Indian Sign Language to Indian Languages in real time; used**: mediapipe, CNN, LSTM, Transformers, Flask, HTML, and Javascript.**

## PROJECTS

**1. OList E-commerce Marketing Analytics** | (Mar'25)
*Summary:* Worked on a project to optimize sales, enhance customer experience, and improve operations through data-driven insights; using **Customer Segmentation, Behavior Prediction, Product Performance Evaluation, Market Basket Analysis, and Sales Forecasting**

**2. AI-Driven Tech Stock Dynamics: A Multivariate Time Series Approach** | (Mar'25)
*Summary:* Developed a project to determine whether AI advancements provide meaningful signals for short-term stock price movements; used Time series models like ***VAR, VARMAX, ARIMA and LSTM***.

**3. Navigating social trends in Footwear Branding** | (Mar'25)
*Summary:* Project aimed to find out how can brands leverage sentiment analysis from Reddit comments to improve marketing and product strategies; used ***NLP techniques*** and built a ***RAG based model*** to answer question about products