

# Yashwant Ponnaganti

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## EDUCATION

### University of Maryland, College Park

College Park,

*Bachelor of Science in Computer Science (Machine Learning Specialization), Double Major: Applied Mathematics Expected May 2025*

- Presidential Scholarship Recipient

## EXPERIENCE

### ML Engineering Intern

June 2025 – Present

*Brown University & University of Rhode Island*

*Remote*

- Built a Retrieval-Augmented Generation (RAG) chatbot for Polycystic Kidney Disease support, processing over 100 research papers using FAISS embeddings.
- Developed a scalable, low-latency asynchronous backend for real-time query responses, enhancing user interaction.
- Collaborated with cross-functional teams to integrate machine learning solutions into existing systems.

### Computer Hardware Engineering Intern

June 2024 – Aug 2024

*University of Rhode Island, Biomedical Engineering*

*Kingston, RI*

- Developed a smart bottle accessory for real-time hydration reminders, improving user health awareness.
- Conducted an international market survey with 90+ participants to assess product-market fit, leading to design improvements.
- Presented the prototype at IEEE MIT URTC 2024, receiving positive feedback and interest from industry experts.

### ML Engineering Intern

June 2023 – Aug 2023

*University of Rhode Island, Biomedical Engineering*

*Kingston, RI*

- Developed a Human Activity Recognition (HAR) model using smartwatch data to predict ADHD onset in children aged 7–11.
- Implemented feature engineering and regression algorithms for accurate activity tracking, achieving high prediction accuracy.
- Collaborated with researchers to refine model parameters, enhancing the reliability of predictions.

## PROJECTS

### RAG Chatbot for Healthcare | *Python, FAISS, OpenAI GPT-4o-mini*

June 2025 – Present

- Engineered a chatbot leveraging Retrieval-Augmented Generation to assist in healthcare support, processing extensive medical literature.
- Implemented FAISS for efficient similarity search, enhancing the chatbot's response accuracy.
- Collaborated with healthcare professionals to ensure the chatbot's responses were medically accurate and helpful.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, SQL, JavaScript, HTML/CSS

**Frameworks:** Flutter, FastAPI, Scikit-learn

**Tools:** Git, Docker, FAISS, OpenAI, Arduino, CAD

**Libraries:** NumPy, Pandas, Matplotlib, TensorFlow