

# Gowsihan R

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## WORK EXPERIENCE

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**Intern, Cube AI Solutions,**  
Tiruchengode,

Apr 2024 – Present

- Developed and fine-tuned AI chatbots using Large Language Models (LLMs), enhancing user interaction and engagement.
- Collaborated with the development team to implement Natural Language Processing (NLP) techniques for improved chatbot performance.
- Conducted data analysis and visualization using Power BI to present insights and recommendations.
- Applied Exploratory Data Analysis (EDA) concepts to understand data trends and inform decision-making processes.
- Assisted in troubleshooting and optimizing AI models to ensure accuracy and efficiency. Contributed to project documentation and presented findings to stakeholders.

## PROJECTS

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### Breast Cancer diagnosis using Machine Learning:

- **Hybrid HOG-SVM Method:** **HOG for Feature Extraction:** Captures image structure and patterns by analyzing gradient directions. **SVM for Classification:** Separates cancerous from non-cancerous tissues using a hyperplane.
- **Enhancing Pattern Detection and Accuracy:** By combining HOG and SVM, the method enhances the ability to detect intricate patterns in medical images.
- **Implications and Future Work: Clinical Applications:** The hybrid HOG-SVM method can be integrated into clinical workflows to assist radiologists in diagnosing breast cancer. It serves as a decision support tool, providing a second opinion and highlighting areas of concern in medical images that might require further investigation.

### Chatbot Development using DistilGPT Model:

- **Project Overview:** Developed and fine-tuned a conversational AI chatbot using the DistilGPT2 model to provide automated responses and enhance user engagement.
- **Technical Skills:** Utilized Hugging Face Transformers, PyTorch, and Pandas for model training and data manipulation. Implemented text tokenization, data preprocessing, and language modeling techniques.
- **Achievements:** Improved chatbot response accuracy and user satisfaction. Achieved efficient model performance with reduced computational resources.
- **Responsibilities:** Curated and preprocessed a custom dataset, fine-tuned the DistilGPT model, deployed the model to production, and optimized chatbot response time and accuracy.

## CERTIFICATIONS

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- Completed Artificial Intelligence Primer course from **Infosys springboard**.
- Designing a Low fidelity Prototype in Figma in **Coursera**.
- Certified at basic level in **Python** by **HackeRank**.
- Certified at basic level in **SQL** by **HackeRank**.
- Certified at basic level in **Java** by **HackeRank**.

## EDUCATION

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### **B.E - Computer Science and engineering**

Sep 2020 – May 2024

NANDHA ENGINEERING COLLEGE,  
CGPA – 84.5

### **Higher Secondary Certificate - HSC**

July 2019 - May 2020

HOLY ANGELS MATRIC HR SEC SCHOOL, TIRUCHENGODE,  
PERCENTAGE: 71.6%

### **Secondary School Leaving Certificate- SSLC**

July 2017 - May 2018

HOLY ANGELS MATRIC HR SEC SCHOOL, TIRUCHENGODE,  
PERCENTAGE : 74.6%

## SKILLS

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GitHub Actions | Python | JavaScript | MongoDB | SQL | Python | JAVA | OOPS | Backend Development |  
Figma | PowerBI | Tableau | Wordpress | UI/UX | Micro Office | Project Management | Communication |  
Leadership | Time Management | Adaptability | Problem Solving | Teamwork | Creativity.