

# AADHITHYA R

aadhithyaraja180@gmail.com · Mobile: 9514582641 · LinkedIn · GitHub · LeetCode

## EDUCATION

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<b>BSc, Programming &amp; Data Science</b> , IITM	CGPA - 7.3 (2022 - 2026)
<b>Bachelor of Computer Science &amp; Engineering</b> , Easwari Engineering College	CGPA - 9.5 (2020 - 2024)
<b>Higher Secondary</b> , SRV Matriculation Hr. Sec. School Samayapuram	84% (2019 - 2020)
<b>Secondary Education</b> , SBOA School & Junior College	83% (2017 - 2018)

## SKILLS

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**Languages:** Python, R, SQL.

**Frameworks:** Langchain, FastAPI, TensorFlow, Keras, Scikit Learn, Seaborn, ggplot2, Streamlit.

**Tools:** GitHub, AWS, MySQL, Docker, Postman, Matplot, Pandas, NumPy, Sheets, Lucidchart.

**Soft Skills:** Leadership, Teamwork.

## Projects

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### Chat with PDFs:

- Engineered a web application using Python and Streamlit, enabling users to interactively ask questions about uploaded PDF files, reducing document analysis time by 50%.
- Implemented Google's Generative AI for natural language understanding and FAISS for efficient similarity search, facilitating intelligent question-answering based on PDF content with 90% accuracy.
- Optimized user experience by ensuring quick and accurate responses, improving user satisfaction ratings by 40%.

### Voiceover GPT Bot:

- Created an interactive voice-activated assistant leveraging OpenAI's GPT-3.5-turbo model to provide intelligent and context-aware responses, increasing response relevance by 60%.
- Utilized Google Speech Recognition for accurate speech-to-text conversion and pyttsx3 for natural text-to-speech functionality, delivering a seamless real-time user interaction experience with 95% speech recognition accuracy.
- Enhanced accessibility and user engagement by enabling hands-free communication, boosting user interaction by 35%.

### Assignment Generator:

- Developed a comprehensive tool for web scraping and text processing, extracting and rephrasing Wikipedia content using OpenAI's GPT-3.5-turbo model, increasing content generation efficiency by 70%.
- Integrated Selenium for automated web browsing and BeautifulSoup for efficient HTML parsing, ensuring accurate content retrieval with a 95% success rate.
- Leveraged Requests for HTTP requests and included features to save rephrased text into files, facilitating easy content extraction and transformation for academic and research purposes, reducing manual effort by 60%.

## EXPERIENCE

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### AI Engineer (Intern Trainee)

SPAN Technology Services Private Ltd

- Developed an AI chat-bot designed to assist users with tax filing processes in the US. Integrated conversational retrieval memory to maintain context and provide personalized assistance, enhancing overall user experience and operational efficiency.
- Drastically reduced the time from manual data entry by implementing AWS Textract to extract data from multi-page PDFs and automatically populate an Excel template. Created an API endpoint using FastAPI, then dockerized it and provided the endpoint to be hosted on a server.
- Conducted time series analysis to forecast next month's website traffic using historical data, thereby optimizing operational planning and resource allocation.

CERTIFICATIONS

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Machine Learning Foundations	AWS Educate Certification
Build your own Chatbot	Deeplearning.AI Certification
Data analytics with python	NPTEL

LEADERSHIP

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Active member of Easwari Rotaract community	Representative (2020 - 2024)
Organized many technical events and hackathons in the college coding club.	Lead (2022 - 2024)
Conducted technical and non-technical events at the Department Symposium.	Events Lead (2023 - 2024)

PUBLICATIONS

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How to create a legend for a contour plot in matplotlib	Codespeedy
Generate secure random string using Secrets module in Python	Codespeedy