G Srishtik Sekar

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Education

Indian Institute of Information Technology,Kottayam **2023-2027**
BTech in Computer Science *8.5 CGPA*

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Database Management
- Artificial Intelligence
- Machine Learning
- Generative AI

Experience

Granville-Tech **June 2025 – Present**
Generative AI Intern

- Developed a Bayesian Knowledge Tracing (BKT) model to personalize course recommendations based on students' mastery levels, learning progress, and skill gaps.

NIT Trichy **June 2025 – July 2025**
Machine Learning Intern *Trichy,Tamil Nadu*

- Developed an Aspect-Based Sentiment Analysis (ABSA) model using SetFit (HuggingFace) and a hybrid RoBERTa-GRU architecture to improve sentiment classification accuracy. Fine-tuned the model for domain-specific tasks, achieving robust performance in extracting and analyzing sentiment at aspect-level granularity..

Projects

Research Project: Hate Speech Detection for Dravidian Languages

- Researcher — Under the guidance of Dr. Balasubramanian P.
- Developing a machine learning-based hate speech detection system for Dravidian languages.
- Utilized NLP techniques, deep learning models, and linguistic analysis to classify hate speech.
- Working on enhancing model performance with domain-specific embeddings and fine-tuned architectures.

ChatDB (ChatDB) | *Streamlit, LangChain, Groq API, SQLite, and MySQL*

- Automatically generates summaries of PDF documents.
- Accepts plain language queries.
- Generates SQL queries using AI.
- User-friendly conversational interface.

PDF Summarizer (PDF Summarizer) | *Streamlit, LangChain, Groq API, PyMuPDF/pdfplumber*

- Automatically generates summaries of PDF documents.
- Upload PDF files for processing.
- Extracts text using PyMuPDF/pdfplumber.
- Uses AI (Groq API) to generate concise summaries.

House Price Prediction (House Price Prediction) | *Python, Scikit-Learn, Pandas*

- Utilized Linear Regression and Random Forest models to predict property prices.
- Evaluated model performance using R^2 score and Mean Absolute Error (MAE).

Technical Skills

Languages: Python, Java, C,C++, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code
Technologies/Frameworks: Tensorflow, PyTorch, Keras, Scikit-learn, Hugging Face(transformers), Langchain, Langgraph, Matplotlib, Numpy, Pandas, ChromaDB, StreamLit, Django, Flask

Leadership / Extracurricular

BetaLabs AI/DS
SubLead

* Organized and led 'Last Bot Standing,' an AI-based event engaging more than 150 participants.
* Mentored students on the "Resume Enhancer" project, guiding them in building an AI-powered tool for resume optimization using NLP techniques.