Arul R

Data Analyst

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EDUCATION

Bachelor of Technology in Information Technology   09/2021 – 05/2025
Anna University, Chennai   Krishnagiri
Studied at PSV College of Engineering and Technology (Affiliated College)
Grade: 81%

SKILLS

Python & Tools	**DataBase**
Pandas, NumPy, Matplotlib, & Seaborn	MySQL
Visualization	**Web Scraping**
Power BI	Data Collection, BeautifulSoup
Excel	

LANGUAGES

English ● ● ● ● ○   Tamil ● ● ● ● ●

ACHIEVEMENTS

Awarded Best Interactive Award
MTIET-Mother Theresa Institute of Engineering Technology
Project Title:
Implementation Of AI-Enabled Real-Time Speech-To-Sign Language Converter With Animated Avatar

PROJECTS

Exploratory Data Analysis of Internships in India 🔗   06/2025 – 07/2025

Tools: Python (Pandas, NumPy, Matplotlib, Seaborn), Jupyter Notebook,
BeautifulSoup, Requests, Regex

- **Scope & Scale:** Scraped and analyzed **6,000+ internship listings** from Internshala, covering multiple industries, locations, and stipend brackets.
- **Data Processing:** Cleaned and preprocessed data by handling missing values, standardizing formats, removing **26 duplicates**, and treating stipend outliers using the IQR method.
- **Analysis & Visualization:** Designed **univariate, bivariate, and multivariate** visualizations to examine trends in role types, locations, duration, stipend ranges, and job offer rates.
- **Key Insights:**Work-from-home roles dominated listings.
  - Most internships lasted **2–6 months**, with ₹5k–₹10k/month stipends.
  - Higher stipends did not guarantee higher job offer rates (offers mostly fell in the 2–3 LPA range).
  - Early application did not significantly improve selection chances.
- **Outcomes:** Delivered actionable recommendations for **students** to optimize internship searches and for **employers** to refine hiring strategies.
- **Impact:** Enabled data-driven awareness of internship market trends, improving decision-making for both applicants and recruiters.
- **Learning:** Strengthened skills in **data wrangling, exploratory data analysis, web scraping, and data visualization**, while improving ability to communicate complex insights clearly to non-technical audiences.

Implementation Of AI-Enabled Real-Time Speech-to-Sign Language Converter   03/2025 – 05/2025
With Animated Avatar 🔗
Final Year Project

Tech Stack: Python, Flask, spaCy, Stanza, Stanford Parser, SIGML, Tailwind CSS
Adapted and enhanced an open-source Flask application that converts text and speech
to Indian Sign Language (ISL) using SIGML-based avatar animations.
Integrated real-time voice input via Google Speech Recognition, and configured local
Stanford Parser setup for gloss generation.
Improved UI with Tailwind CSS and contributed to testing and deployment.

CERTIFICATES

- Python Programming 🔗