ARUN

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EDUCATION

Dayananda Sagar College of Engineering, Bengaluru **2023 – 2026**
B.E. in Computer Science and Engineering (Data Science) — ***CGPA: 8.08*** *Bengaluru, Karnataka*

Government Polytechnic College, Bidar **2020 – 2023**
Diploma in Mechanical Engineering — ***CGPA: 8.8*** *Bidar, Karnataka*

Shree Sai Adarsh High School, Bidar **2020**
SSLC — ***Percentage: 83.04*** *Bidar, Karnataka*

PROJECTS

Phishing Detection System | JavaScript, ReactJS, Python, Django, SQL, ML, APIs **Aug 2025**

- Built a phishing detection platform (React + Django REST) with 95 Percent + model accuracy, supporting secure real-time URL scanning..
- Engineered a robust classifier with XGBoost, integrated Google Safe Browsing and urlscan.io APIs for reliable live threat intelligence.
- Added advanced password strength analysis and a dynamic live attacks dashboard, enhancing transparency and user security awareness.
- Delivered a fully responsive UI for instant ML feedback and seamless cross-device user experience.

Gesture to Speech Communication System | CNN,gTTS,Mediapipe,PyTorch,Flask **Feb 2025**

- Developed an end-to-end real-time gesture-to-speech system to assist speech-impaired individuals, using standard webcams and a lightweight, deployable architecture.
- Implemented a custom CNN trained on a self-curated dataset with 16 gesture classes.
- Integrated MediaPipe for 21-point hand landmark detection and normalized input for robust classification.
- Mapped recognized gestures to text and synthesized speech using Google Text-to-Speech (gTTS), enabling fluid, real-time interaction through a web interface built with Flask.
- Optimized the system for low-latency, cross-platform usage, eliminating the need for specialized hardware.

Transformer-Based Image Captioning Sytem | Transformers, ViT, GPT-2, PyTorch **Nov 2024**

- Fine-tuned the ViT-GPT2 transformer model on the Flickr8k dataset to automatically generate accurate, contextaware captions for images.
- Employed a Vision Transformer (ViT) for image patch encoding and GPT-2 for autoregressive caption generation with beam search decoding.
- Built a complete inference pipeline and deployed the model via a Gradio-based interface, supporting real-time image upload and caption display.
- Applied mixed-precision training and optimized preprocessing for faster inference and lower memory consumption, making the system suitable for consumer-grade hardware.

Hotel Menu Web Pages. | HTML, CSS,Javascript **OCT 2025**

- In this project we did simple 4- 5 web pages and which are inter connected and responsive too .... for hotel menu items selection like making orders in sitting places(from the table only...
- Responsive: Works well on computer, tablet, and phone.

TECHNICAL SKILLS

Languages: Python, C++
Database Management: SQL
Front-end-development: HTML,CSS,JAVASCRIPT
Analytics Visualization: Power BI, NumPy, Pandas, Matplotlib ,Tableau, Excel
Machine Learning and NLP : CNN,RNN,LSTM etc.
Tools: VS Code, Git, GitHub Actions
Course Work: OOPs, DBMS, Data Structures And Algorithms
Soft Skills Problem Solving, Debugging, Communication, Team Leadership, Creative Design Thinking

CERTIFICATIONS

- NPTEL Online Course (12-week) – Deep Learning for NLP – SWAYAM
- IBM SkillsBuild Project-Based Learning Program – Click, Code, Create: Beginner's Guide to Front-End Web Development with CSRBOX (July–August 2025)
- Complete Data Structures and Algorithms in C++ — Dr. Love Babbar, CodeHelp