

EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	Artificial Intelligence & Data Science	KLU Hyderabad	2021-Present	8.40(Current)
HSC TSBIE	Physics, Chemistry, & Mathematics	Sri Chaitanya College	2019-21	8.68
SSC BSET		Sri Chaitanya School	2018-19	8.77

WORK EXPERIENCE

- **AI Intern** [Tech Mahindra] Sep-Nov 2024
 - **Data Preprocessing and Feature Engineering** : Conducted comprehensive **data cleaning** by handling missing values and performing feature engineering on dependency ratios to enhance model performance and predictive capabilities.
 - **Model Development and Comparative Analysis**: Developed and tuned two advanced predictive models - an **LSTM deep learning model** and a **SARIMAX statistical model** - for population trend prediction, utilizing sophisticated interpretation techniques like **ShAp** and **LIME** to uncover underlying prediction drivers.
 - **Model Evaluation and Performance**: Executed a rigorous evaluation of modeling approaches using **performance metrics** including **RMSE**, **MAPE**, and **visual trend analysis**, achieving an **exceptional 99.63% accuracy** in predicting the **UK population** through the SARIMAX statistical model.

PROJECTS

- **Emotion-Based Music Player** [Prof. Sandeep Chitreddy] Oct-Dec 2023
 - The project utilizes **facial expression detection** through the **Fisherface Machine Learning Algorithm** to recognize four emotions (**sad, happy, angry, neutral**). It uses **400-450 images** related specifically to users and **Haarcascade models** for face detection. Multiple frames are analyzed to enhance accuracy.
 - Through a **user-friendly** web interface, the system combines **Python** (for emotion detection) and **JavaScript** (for music playback) through the **Eel library**. This allows for additional playback options, such as queue-based and random selection modes, and even dynamic music selection based on the emotions identified.
- **Applicant Tracking System** [Prof. Sudharshan Babu Pandava] Mar-Apr 2024
 - The **ATS Resume Checker** uses a **Streamlit library** that is used to create an interactive web application where users can upload a resume (in PDF format) and compare it with a job description for analysis. The application leverages AI Model (**Google Gemini Pro 2.0**) to evaluate the resume's fit for the job.
 - The Code generates insights and offers two types of evaluations: a **professional review** of the resume's strengths and weaknesses concerning the job description, and a **percentage** match that highlights missing keywords and provides final thoughts on the resume's suitability.

POSITIONS OF RESPONSIBILITY

- **Empowering Communities through Naksh Foundation(NGO)** Sept-Oct 2024
 - Contributed to the **CyberShield** project by researching, creating educational content, and engaging with participants to raise awareness about cybercrime and promote cyber safety and security.
- **Python Coding Mentor** Sept-Oct 2022
 - **Mentored over 50+ junior members**, effectively communicating key concepts in computer science, including Object-Oriented Programming (OOP), to enhance their understanding and skills.

TECHNICAL SKILLS

- **Languages**: Python
- **Tools**: Jupyter Notebook, VS Code, Tableau, Power BI, Excel, Pandas, NumPy, TensorFlow
- **Courses**: Machine Learning, Data Analytics Course by CodeBasics.io, Data Visualization, Probability & Statistics, Computer vision, Data Cleaning & Wrangling