A CHETHAN REDDY

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Education

Vellore Institute of Technology - Vellore, India **Jun 20 - Jul 24**
BTech in Electrical Engineering | CGPA: **8.36/10**
Sree Vidyanikethan International School, India **May 20**
CBSE (Class XII), Aggregate: **93.7%**

Work Experience

Bajaj Finserv Health | Data Science Engineer Intern | India **May 22 - Jul 23**

- Developed user-centric **recommendation systems** for lab tests and packages, leading to a **seamless** and personalized experience for users. By harnessing the power of **LLMs**, **OCR methodologies**, **Name Entity Recognition**, and **YOLO** for **image analytics**, we successfully extracted crucial data from various sources, **enabling faster** and more accurate decision-making processes. **30% system efficiency** boost, **personalized healthcare** with **advanced technology**.
- As part of the team **responsible** for optimizing **data retrieval processes**, leveraged **fuzzy matching** techniques to **fine-tune SQL queries** and enhance **Elastic Search** functionality. By **minimizing** ambiguity and **refining search accuracy**, we achieved a **remarkable 25% boost** in data retrieval speed. This optimization played a pivotal role in driving **operational excellence**, **enabling faster access** to vital information, and improving overall workflow **efficiency**.

Smart Diet Planner | Artificial Intelligence Intern | India **Aug 22 - Jan 23**

- Engaged in **extensive research** and ideation to develop **innovative AI solutions** for the **Smart Diet Planner app**. The goal was to significantly **enhance** the **user experience** and **boost overall engagement** within the application.
- Implemented **AI-based solutions**, such as **search engines**, **automated PDF analysis**, and **text extraction,** which seamlessly integrated into the app. These **enhancements significantly** improved **functionality** and **user experience**.

Groom | Machine Learning Intern | India **Nov 21 - Feb 22**

- Worked on **YOLO V4, V5, and V6 algorithms** for Image **tagging and annotations** of fashion products using **Google Colab** and **trained** the **model** with more than **100000+ modified iterations** and **1 lakhs+ dataset** from different sources to **increase** the **accuracy of the model** and ease its **backend integration** with the main **Groom** application.
- **Supervised 10+ interns** in designing the **machine learning algorithms** and Python scripts for **Image tagging** tasks.

Academic and Extracurricular Achievements

- **1st runner-up** Prize in **HackRx 3.0**, 2022 by **Bajaj Finserv,** demonstrated exceptional **problem-solving skills.**
- **Top 7 - SirionLabs HackFest, 2022:** Reached the **grand finals,** showcasing **innovation** and **technical prowess.**
- **1st Prize - IEEE Women In Engineering VIT WeHack 3.0, 2022 (powered by Honeywell).**
- **Top 10 - JSSATEB Hackwell 3.0 (powered by Honeywell),** displayed **outstanding creativity** in the project.
- **Selected for Semi-Finals (Top 50 of 18000+ Teams)** of **Samsung Solve For Tomorrow - IIT Delhi.**
- Finalist (**Top 10 of 3000+ Teams**) of **Siemens Healthineers SHIFT hackathon** - 2022.
- **5th** & **10th** - **Amadeus Hack4Impact** and **Danfoss Make-a-thon:** demonstrated **versatility** and **adaptability**.
- **Led** the entire **health tech project "Physio Plus for Micro Clinics"** under **TIFAC of VIT-Vellore**.

Personal and Academic Projects

Supplier Performance | LINK | GITHUB **Aug 22 - Aug 22**

- Made an **efficient design** and **fast algorithm** to select the **best supplier** from more than **6 million** created records and stored in **MongoDB** based on **optimizing** different **attributes** like **rating, average cost, resources, and delivery time**.
- **Automated performance predictive analysis** for specifically selected suppliers by the user using a **customized polynomial regression algorithm** for the **next 5 years** with an integrated **Plotly visualization** dashboard.

Keywords Recommendation Engine | LINK | GITHUB **Jun 22 - Jun 22**

- Designed and implemented a **search engine** with **Auto-Correct, Auto-Complete,** and **Keywords Recommendation** based on the **search trends** for the **Bajaj Finserv Insurance website** using **Linear Support Vector Model**.
- Used a pure **AI Mathematical** model (**Levenshtein and Fast Autocomplete Algorithm**) and **Directed Acyclic Graph data structure** to increase the **accuracy** and **efficiency of the search** in less than **800 milliseconds.**

WeDio - Finding Disruptions in CCTV Videos | LINK | GITHUB **Apr 22 - Apr 22**

- An **algorithm** that uses the power of **ML Mathematics** to find out **5 major** classes of disruptions like **lagging, blurriness, quality issues, chromatic aberrations** like **black screen**, and **freezing** for lengthy HD videos.
- Users can input **any sized HD video** to get the output of the quality in the form of an **Excel or JSON** with the **starting** and **ending timestamps, type of disruption**, and the **score of each disruption** that has occurred in the video.

FFCS Planner Auto Slot Picker | LINK | GITHUB **Nov 21 - Nov 21**

- An **Algorithm** that **efficiently generates** the **timetable for students** studying at Vellore Institute of Technology and also helps VITians make their **timetable by choosing the desired course, faculty, and time slot** with **2000+** courses.
- Used concepts of **Data structures and algorithms**, where indirect **3D graph traversal technique** is used to optimize the timetable which is used by more than **10000+ students** of VIT. This feature has enhanced the whole **FFCS system**.

Skills

Technical Skills: C++ | Linux | Java | Python | Machine Learning | Tensorflow | Flask | MySQL | Git | OS | Data Structures | Algorithms | Elastic Search | MongoDB | REST APIs | Postman | React.js | VSCode | HTML5 | System Design | Computer Vision
Soft Skills: Leader | Motivator | Initiator | Team player | Public speaker | Analytical thinking | Problem-solving | Patience | Thinker