

Chirag Manish Bolakani

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EDUCATION

Vellore Institute of Technology, Vellore, India	Sep 2022 - Jun 2024
Masters of Computer Applications (MCA)	CGPA 8.93/10
K. C. College, University of Mumbai, Mumbai, India	May 2019 - Jun 2022
Bachelors of Science in Information Technology (B.Sc IT)	CGPA 9.5/10

RELEVANT WORK EXPERIENCE

Nokia Networks, Chennai, India (In-Office)	Aug 2023 - May 2024
<i>Research and Development Intern</i>	

- Engineered Django-based website for regression testing; enhanced with **auto re-run of tests** and **bulk comment updates**.
- Built **CI/CD pipeline** using **Jenkins** for seamless **ML-Ops** such as data collection, cleaning, pre-processing and training. Hosted Django **ML backend** with **mod_wsgi** and **apache** inside **Docker** container on an on-premises **Rocky linux** server.
- Developed visualization and analytical tools for **processing Broadcom Distribution Point Unit (DPU) logs**, enabling the **identification of anomalies** associated with **critical bandwidth issues**.
- Successfully spearheaded the implementation of effort reduction strategies, resulting in a **25% decrease in manual intervention** in the team.

TECHNICAL PROJECTS

1. Chill-Pill [Link] [Github]	May 2024 – Jun 2024
<ul style="list-style-type: none">Music streaming app written in Javascript with no external dependencies.Developed NodeJs server that supports HTTP 206 Partial Content Streaming.Created responsive and interactive UI purely using Vanilla Javascript.Deployed on AWS with the NodeJS Backend running inside a docker container and Frontend behind apache docker container	
2. React-Notes [Link] [Github]	July 2024
<ul style="list-style-type: none">Developed a dynamic notes application in React, integrating React Router for navigation and utilizing hooks like useState, useEffect, useParams, and useNavigate for efficient state and lifecycle management.	
3. Vendor Management System [Link]	Apr 2024 – May 2024
<ul style="list-style-type: none">This backend provides required routes to implement a Vendor Management System. Utilised class-based views in Django-rest framework. Endpoints are authenticated using JSON Web Tokens (JWT).Utilised Django Signals to trigger updating of the vendor performance metrics on each modification.	
4. Task Scheduler App [Link] [Github]	Mar 2024 – Apr 2024
<ul style="list-style-type: none">A Built a task management application using Django and django-rest-framework with REST API, secured via JWT Authentication; hosted on AWS with Docker.	
5. Human Presence Detection Using RF Signals [Link]	Oct 2022 – Jan 2023
<ul style="list-style-type: none">A Collected Received Signal Strength Indicator (RSSI) from Esp32 and applied various statistical parameters over the RF Signal and successfully detected the presence/absence of a Human in an controlled environment.	
6. Lung Capacity Check – Spirometry for Pulmonary Function Test [Github] [Link]	Oct 2021 – Apr 2022
<ul style="list-style-type: none">Innovated a low-cost solution to calculate Spirometry parameters by leveraging Bernoulli-Venturi Principle as well as performs Incentive Spirometry. Utilised MongoDB and Matplotlib to analyze the patients' results.	

SKILLS

- Programming Languages:** Python, Java, Javascript
- Database Technologies:** MySQL Server, Oracle DB, MongoDB
- Web Technologies:** Django, Django Rest Framework, Node.js, Express.js
- Python libraries:** NumPy, Pandas, Matplotlib, Plotly, Flask
- Dev-Ops:** Docker, Apache, Jenkins

ACADEMIC HONORS/AWARDS

- Best Project Award. Code for Life Hackathon, VIT Vellore** May 2023
Awarded for the Best project award amongst more than 100 registered teams and 400+ students.
- My Applied Science Contest, VIT Business Incubation Center** Mar 2023
Secured 3rd position amongst various students in the inter-department Innovation contest.
- Team Leader, Project DeepBlue, Mastek** Oct 2021-Mar 2022
2nd Runner Up at Mastek's Deep Blue Season 7 among the 282 registered team.
- Team Leader, Devsoc'21 , CodeChefVIT, Vellore Institute of Technology** Apr 2021-May 2021
Won Devsoc'21 among 500 teams participated from all over India.
- Team Leader, SIH Internal Hackathon 2022, KC College, Team Rand0m6** Feb 2022-Mar 2022
Spearheaded the team to 2nd Position at SIH KC College Internal Hackathon.