






# Amulya Paritosh

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## EDUCATION

<b>Chandigarh University</b> <i>Bachelor of Engineering in Computer Science</i>	2025 cgpa: 8.02
<b>Loyola Convent School</b> <i>Higher Secondary Certificate</i>	2021 percentage: 93.0

## SKILLS

**languages:** Python, C/C++, Java, HTML/CSS, LaTeX, SQL, Dart  
**technologies:** API Development, Software Development, Web Scraping, Data Science, Database, Internet of Things  
**frameworks:** PyQt/PySide, Flutter, Flask, Django, FastAPI  
**tools:** Git/GitHub, Unix Shell, Linux, VS Code, Anaconda, Nginx, Apache2, Celery, Postman

## PROFESSIONAL EXPERIENCE

<b>FreeCAD</b>   <i>Independent Contractor</i> Working as a contractor on the Component Management System and Components Library Addon of FreeCAD Building an attributes metadata mapping for efficient searching and components specifications storage Authentication of API and user component uploading and other API improvements Github OAuth, Logging, Flask, Sqlite, Sqlalchemy, Elasticsearch, PySide, QtDesigner, RestAP	Nov 2023 - Cont.
<b>Google Summer of Code @ FreeCAD</b>   <i>Open-source contributor</i> Worked as a contractor on open-source project at FreeCAD through Google Built Component Management System for managing distributed 3D models Flask, Sqlite, Sqlalchemy, Elasticsearch, PySide, QtDesigner, RestAPI, Swagger	May 2023 - Aug. 2023
<b>My Next Film Pvt. Ltd.</b>   <i>Intern</i> Django RestAPI developer for script editor, ORM for tree storage structure of scripts Running tasks asynchronously with Celery. ORM for tree storage structure of scripts(Live Project) Script change Tracker Django, Python, RestAPI, Celery, NLP	Jul. 2022 - Jan. 2023
<b>2D-3D x-ray image Conversion</b>   <i>Consultant</i> Research project to make a 3D model of the nasal cavity from two x-ray images Python, Algorithm, Open3D, OpenCV, 3D Transformations, Image Processing	Jan. 2022 - Mar. 2023

## PROJECTS

<b>Component Management SystemSystem</b>   <i>Python, Flask, SQLite, Marshmallow, Elasticsearch, Authentication</i> <ul style="list-style-type: none"><li>Distributed storage and management system of 3D-models and its metadata for FreeCAD</li></ul>
<b>Components Library AddonSystem</b>   <i>Python, PySide6, REST-API integration, Qt Designer</i> <ul style="list-style-type: none"><li>Plugin for FreeCAD software for managing local and community-managed library of Open-Source Components</li></ul>
<b>ChatGPT Desktop ClientSystem</b>   <i>Python, ChatGPT-API, CLI, Asynchronous Response, Prompt Engineering</i>

- CLI, shortcut dialog, and GUI Desktop Application of ChatGPT

#### **20-20-20 RuleSystem** | *Python, PyQt, Qt-Designer, Scheduling, SupervisorD*

- Application that reminds you to follow 20-20-20 rule to reduce eye strain

#### **Disease-Prediction-BotSystem** | *Python, Machine Learning, Tkinter, NumPy, Pandas, SkLearn*

- Bot that can diagnose diseases based on symptoms

#### **Analysis of Indian Education (2015-2016)System** | *Python, Dash, Plotly, Data Analysis*

- Interactive Dashboard of Indian education data (2015-2016)

#### **Alexa clone (Personal assistant)System** | *Python, Tensorflow, NLTK, Natural Language Processing, Machine Learning*

- Personal assistant chatbot that can perform a multitude of tasks

### ACHIEVEMENTS

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**Patent** | *Drain Clogging Prevention System*

Application no. :202211017463

**Hackathon** | *FireFly - NIT Warangal*

3rd Position

**Hackathon** | *Smart India Hackathon*

Participated