

# Chinmaya Garg

Portfolio: <https://chinmaya.dev>  
[linkedin.com/in/ChinmayaGarg](https://www.linkedin.com/in/ChinmayaGarg)  
[github.com/ChinmayaGarg](https://github.com/ChinmayaGarg)

Email : [chinmaya.garg1997@gmail.com](mailto:chinmaya.garg1997@gmail.com)

Mobile : +91 81959 10120

Rajasthan, India

## EDUCATION

- **Master of Business Administration in Business Analytics** GPA: 8.47/10.0 Jul 2018 - Jun 2020  
*Thapar Institute of Engineering and Technology, [Degree]* Punjab, India
- **Bachelor of Engineering in Computer Engineering** GPA: 8.08/10.0 Jul 2015 - Jun 2019  
*Thapar Institute of Engineering and Technology, [Degree]* Punjab, India

## RECENT EXPERIENCE

- **Software Engineer** Sep 2021 - Aug 2022  
*Punchh Inc. [Website]* Jaipur, India
  - **Maintained** Punchh's mammoth framework.
  - **Contributed** to 20+ mobile applications, varying from go-live, app-updates, LAIs, Bug Fixes, and re-skin projects using Punchh's framework, various packages and libraries within a shared timeline for multiple US-based clients.
  - These applications collectively have more than 10 Million+ downloads and a 4+/5 avg. ratings.
- **Full Stack Developer Intern** Jan 2021 - Sep 2021  
*Think Straight IT LLP [Website]* Noida, India
  - **Requirement Gathering:** Worked with the client to elicit the project requirements.
  - **Developed Web App:** A house renting application **Flatmate.in**, with active listing of 10,000+ houses in India.
- **Data Engineer Associate** Mar 2020 - Jun 2020  
*Celebal Technologies [Website]* Rajasthan, India
  - **Tech Stack:** MSSQL, Python, PowerBI
  - **Data Collection and Warehousing:** Setup the ELT pipeline to collect the data from multiple event-based autonomous systems on company products. Cleaned and stored the data in relational databases.
  - **Data Analysis:** Retrieved, manipulated, and visualized data for analysis and management reporting.
- **Research Intern, Text to Image Conversion** Feb 2019 - Jun 2019  
*University of Malta [Project Report]* Msida, Malta, EU
  - **Feasibility Check and Literature Review:** Studied 100+ research papers.
  - **Process Planning:** Process was carried out in 3 steps
    - \* **Dataset Selection:** Chose dataset OXFORD-102 with 102 categories. Each containing 40 to 258 images and their corresponding descriptions.
    - \* **Dataset Manipulation:** Annotated image features using Parts-of-Speech Tagging & Keyword Extraction.
    - \* **Model Training:** Trained GANs (Generative Adversarial Networks) to achieve 91% accuracy.

## PERSONAL PROJECTS

- **CARaM: [Link]** Aug 2018 - Feb 2019  
**Coordinated Adaptive Replica Management For Charging Stations**
  - Modified IDDFS algorithm to find vacant charging stations for Electric Vehicles. Used Smart Grid, ZigBee, Machine Learning, & camera.
  - Research is published in peer-reviewed conference, IEEE-ICC 2019. DOI: 10.1109/ICC.2019.8761574
- **Novel Image Encryption Technique based on Triple Pendulum** Aug 2019 - Sep 2020
  - Triple Pendulum has been used as a Pseudo-Random Number Generator (PRNG). The random numbers generated are then used to encrypt images.
  - The solution has the high complexity required for secure image transfer, Key Sensitivity of  $10^{-14}$ , a Key Space of  $2^{327}$ , and a Variance as low as 251.5.
  - The manuscript has been submitted to SCI Journal and is under review.

- **Hotel Booking App [GitHub] [notbooking.vercel.app]** Aug 2022 - Present
  - **Tech Stack:** JavaScript, ReactJS, HTML, CSS, NodeJS, Express, REST, MongoDB
  - Building a web app for booking hotels online (similar to Booking.com).
  - Integrated Mongo DB for CRUD operations for User & hotels.
- **Ecommerce Web App [GitHub] [chinecommerce.vercel.app]** Aug 2022 - Present
  - **Tech Stack:** JavaScript, ReactJS, HTML, CSS, NodeJS, Express, REST, MongoDB
  - Building a scalable Ecommerce framework flexible to make web app for any business type.
  - Integrated DB management to improve efficiency and streamline operations.
- **Employee Attrition [GitHub]** Sep 2019
  - **Tech Stack:** Python, Anaconda, Machine Learning, Deep Learning
  - Predicted employee attrition using IBM employee dataset and detected the factors causing attrition.
  - Performed Exploratory Data Analysis (EDA) and trained binary classifiers such as Logistic Regression, XGBoost, & others. Achieved 85.99% cross-validation accuracy using the CatBoost model.

## PUBLICATIONS

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- Bhatt, R., Garg, C., Singh, H., Kumar, N. and Rodrigues, J.J., 2019, May. CARaM: Coordinated Adaptive Replica Management for Charging Station. In ICC 2019-2019 IEEE International Conference on Communications (ICC) (pp. 1-6). IEEE.

## TECH SKILLS

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- **Full Stack:** JavaScript, JAVA, ReactJS, React Native, NextJS, TypeScript, Redux, HTML, CSS, Redux, NodeJS, Express, REST
- **Databases:** NoSQL, MongoDB, SQL, MSSQL
- **Tools:** Git, Github, IntelliJ IDEA, VSCode, Reactotron, Postman, Insomnia, XCode, Android Studio, Latex

## VOLUNTARY WORK

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- **Shreenirmal Vivek Special School [Website]** Rajasthan, India  
*Volunteer [Certificate]* Jun 2016 - Jul 2016
  - Serviced under the organization working towards the welfare of children with special needs.
  - Assisted the organization in data management, IT setup, social awareness & event management.
- **NGO: Nari Chetna Samiti** Rajasthan, India  
*Volunteer [Certificate]* Mar 2020 - Sep 2020
  - Took care of elderly people at an old age home during COVID-19 pandemic.
- **Regular Blood Donor**

## ACTIVITIES

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- **Thapar Institute Soccer Team** Punjab, India  
*Team Member* Aug 2017 - Aug 2020
  - Won several gold & silver medals in soccer during my tenure at College Soccer Team.
- **Thapar Toastmasters Club [Toastmasters International]** Punjab, India  
*Team Member* Jul 2015 - Sep 2017
  - Toastmasters is an organization operating to promote public speaking and improve communication skills.
  - Raised 700CA\$ to conduct public speaking contests and implemented strategies to increase club strength which tripled the strength.