

# Aarya Bhatt

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Grounded and Solution-Oriented compliant eager to stay updated with emerging technologies. I aim to expand my technical knowledge by pursuing a master's degree in computer science. My career objective is to drive organizational success while furthering my professional development in a challenging and collaborative environment.

## EDUCATION

**Arizona State University, MS in Software Engineering | AZ, USA**

**01/25**

**Charusat University, B.Tech in Computer Science and Technology | Gujarat, India**

**CGPA: 9.71/10**

**10/20-05/24**

Received Academic Rank award twice. Ranked in top 5 in the department throughout the B.Tech. Participated in a hackathon and many coding competitions. Achieved 18<sup>th</sup> Rank in codepie Competition out of 148 teams. Worked with a research mentor and submitted two (one accepted) research paper in IEEE Scopus-indexed conference and one in a peer reviewed Scopus/ WoS Journal.

## SKILLS

**Technical skills:** C, C++, Java, Python, HTML, CSS, JavaScript, Network troubleshooting, PHP, Ajax, jQuery, Spring, Spring Boot, Hibernate, ReactJs, NodeJs, Bootstrap, Streamlit, SQL, PLSQL, MongoDB, PowerApps, Data Preprocessing and analysis, Model building, Natural language processing, large language models (LLM), Pytorch, TensorFlow, Git & GitHub.

**Non-Technical Skills:** Leadership, Presentation, Documentation, Tutoring, Time Management, Fast Adaptability.

**Interests:** Software Development, Data structure and Algorithms, Operating Systems, Computer Vision, Data Science.

## EXPERIENCE

**Tata Consultancy Services, Software Developer Intern | Gandhinagar, India**

**01/24-05/24**

- Worked on a live project and helped the team in debugging process for fixing some issues.
- Troubleshooted and Re-developed two fully functioning web pages including all functionalities and tested them to ensure smooth working of module.
- Worked on auto-populate, pagination, client and server-side validations, database management and many other functionalities as a full- stack developer.

**TatvaSoft, Frontend Developer Intern | Ahmedabad, India**

**05/23-06/23**

- Implemented a Book Store application through ReactJs and gained a deep understanding of React Hooks.
- Moreover, gained a deep and practical understanding of overall workflow in front-end domain.

**Intern Pe, Software Developer Intern | Remote, India**

**05/23-06/23**

- worked with ExpressJs and Mongo DB and developed a backend application "Contact Manager" and also enhanced security using password hashing. Authentication is added using JsonWebToken (JWT).

**WebBrains Technologies Private Ltd, Web Developer | Vadodara, India.**

**02/22-06/22**

- Designed a web page and implemented it using HTML, CSS and Java script.
- Also, worked on React and Express Frameworks and worked on a client project.

## PROJECTS

### Block-Vote

- BlockVote is a blockchain based E-voting system which provides security to overall infrastructure by hashing algorithm SHA-256.
- **Tools & Technologies used:** NodeJs, Truffle, Ganache, ReactJs, Solidity, MetaMask.

### Expense Tracker

- Expense Tracker is a full stack analysis-based project in which an individual can track daily expenses.
- **Tools & Technologies used:** ReactJs, NodeJs, MongoDB and other dependencies.

### Contact Manager

- "Contact Manager" is an elementary backend project which stores the contacts of a user and also provides security to it.
- It is a node-express project which includes the fundamental CRUD operations on all the contacts.
- **Tools & Technologies used:** ExpressJs, NodeJs, MongoDB, Decrypt library, Json Web Token.

### Stock Price Predictor

- It is technically a streamlit based web Stock price predictor having listed the stocks of NSE, BSE, Nasdaq using y-finance. For the model purpose, trained model Fbprophet was used and an accuracy of **96%** was achieved.
- **Tools & Technologies used:** Python, Streamlit, Fbprophet, Yfinance.

### Wanna-Chat

- Wanna chat is a MERN-stack web application wherein users can chat in real-time. Moreover, the data is transferred and stored in encrypted format to ensure security.
- User authentication, User searching, Group Chat and changing profile are some of the other functionalities available in project.
- **Tools & Technologies used:** ReactJs, NodeJs, ExpressJs, Mongo DB, Socket.IO

### Bus Yatra

- “Bus Yatra” is solving a daily problem of bus booking and displaying the buses along the specified routes involving all CRUD operations. Furthermore, it has functionalities of Dashboard, Bus List, User Account, Admin Account, Location dropdown, searching of the bus and many other functions.
- **Tools & Technologies used:** HTML, CSS, JavaScript, Bootstrap, Ajax, jQuery, PHP, MySQL, XMAP server.

### Answer-Craft: Langchain based Q&A System

- “Answer-craft” is an innovative and advanced Question and Answer (Q&A) system using a state-of-the-art Large Language Model (LLM). The system aims to provide users with accurate, context-aware, and natural language responses to a diverse range of queries, leveraging the advanced capabilities of the LLM.
- **Tools & Technologies used:** Python, Hugging Face, Langchain, Google Palm, Google Colab, Vector-Embedding.

### Duplicate Files Remover

- The project contains python script which deletes all the duplicate files in the directory and is applicable to all formats like .pdf, .txt, .jpeg .mp3, .mp4, .py, .js, .java etc.
- At the time of running, it shows the list of files before deleting them and also calculates the execution time.
- **Tools & Technologies used:** Python, OS, time, hashlib.

## RESEARCH EXPERIENCE

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Sr No.	TITLE	DETAILS	AUTHORSHIP	STATUS OF PAPER
1	“Deep Transfer Learning based Lightweight Agricultural Pest Classification Model using Convolutional Neural Networks”	By using Transfer-learning, fine-tuned 4 lightweight pretrained models for pest classification to be used by farmers.	1 <sup>st</sup> Author out of 4	Paper is Published <a href="https://doi.org/10.1109/ICICT60155.2024.10544420">https://doi.org/10.1109/ICICT60155.2024.10544420</a>
2	"General-purpose Named Entity Recognition using transformer based Fine-tuned Approach”	Developed (XLNet), performed NER on fine-tuned transformer and non-transformer-based models & evaluated using 14 different parameters.	1 <sup>st</sup> Author out of 8	Paper is submitted in PeerJ journal. It has passed the 1 <sup>st</sup> review and needed changes were submitted.

## EXTRACURRICULAR ACTIVITIES

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- Participated in “Web Craft”- a website building competition in a group of two.
- Worked as a cashier for 5 months (Aug-Dec24) at Avenue Supermarts Limited, a leading chain of supermarkets.
- In a group of 3, I took part in pythakon (python-based hackathon) and went till second level after scrutinization.
- Along with other 2 members, participated and achieved 18<sup>th</sup> rank in codepie competition out of 148 teams.
- Actively took part in games like Badminton, cricket, Debate and Elocution competitions during Spoural (Annual function of university).
- Led a team of 5 and participated in a college level entrepreneurial event and received an award for uniqueness of idea.