

# Yajat Malhotra

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## Education

### VELLORE INSTITUTE OF TECHNOLOGY

Computer Science & Engineering, CGPA:9.11

Vellore, India

2020 – 2024

### GREENWOOD HIGH INTERNATIONAL SCHOOL

12<sup>th</sup> ISC – 95.25%, 10<sup>th</sup> ICSE – 95%

Bangalore, India

2014 – 2020

## Experience

### FACCTUM

#### Machine Learning Intern

Bangalore, India

Jan 2024 – Feb 2024

- Developed an advanced solution for efficient multi-class MCC classification, integrating Retrieval Augmented Generation (RAG) and Large Language Model (LLM) for enhanced accuracy.
- Led the creation of visually informative merchant webpage visualizations using UMAP and implemented a robust Web Crawler with Apache Nutch and Solr for actionable insights from merchant websites.

### CITI BANK

#### Technology Summer Analyst Intern

Pune, India

May 2023 – July 2023

- Implemented Playwright for UI testing integrated with Jenkins on Lightspeed Enterprise, automated API testing with Cucumber and Gherkins, and developed a comprehensive Tableau dashboard during the internship.

### SAMSUNG R&D INSTITUTE INDIA

#### Machine Learning Research Intern

Bangalore, India

Nov 2022 – May 2023

- Conducted research in Explainable AI in text, and developing innovative solutions with a team of researchers and engineers.
- Created a Deep Learning pipeline to automatically generate text concepts and acquire Concept Activation Vectors, resulting in an improved understanding of how NLP models make decisions and their performance.

### WIPRO

#### Data Analytics Intern

Bangalore, India

May 2022 – July 2022

- Developed an event log correlation engine using Apache Flink to proactively identify and solve customer issues while using Wipro VirtuaDesk, which helped the company to effectively address customer issues and improve user experience.

### BYTE AVENUE

#### Machine Learning Engineer

Bangalore, India

Sept 2021 – May 2022

- Built a robust Deep Learning pipeline using Graph Neural Networks to perform Code Similarity Task using Pytorch.

## Projects

**STUDCATE:** *LangChain, GPT-4, Python, NextJS, Node.js, MongoDB, Docker, NGINX, Android, Jetpack Compose, Azure*

- Developed an AI-driven course generation app that provides curated roadmaps, recommended videos, and resources.
- Architected the app using a resilient microservices framework, seamlessly orchestrated by NGINX for optimal scalability and adherence to industry standards.

**OURCHATSTORY.CO - #WHATSAPPWRAPPED:** *Python, FastAPI, NextJS, DigitalOcean*

- Developed an application to get beautiful insights about user's WhatsApp chats that they can share with their friends.
- Used by people all over the world at the end of the year with more than 2k users using the website concurrently.

**MOM BOT:** *PyTorch, Python, FastAPI, Transformer*

- Developed an NLP model using T5 transformer to generate meeting minutes (MOM) from the transcript of a meeting, contributing to a practical solution that streamlines the MOM creation process.

**VITTY: A VIT TIMETABLE APP:** *Kotlin, Android, Firebase, JavaScript*

- An Android App with over 30k users that lets students view their timetable, has widgets to tell them their classes, sends notifications for their upcoming classes and more.

**GANDALF - PRECISE WEBSITE CONTENT CLASSIFIER AND BLOCKER:** *NLP, Transformer, Python, Tensorflow*

- Engineered the Gandalf Model for precise website content classification, employing DistilBERT Transformer and BiLSTM.
- Published under a reputable publication, highlighting its contribution to advancing content filtering and blocking systems.

## Technical Skills

**Languages:** Java, Python, Kotlin, C/C++, SQL, Powershell, JavaScript, TypeScript, HTML/CSS, PHP, R

**Frameworks and Tools:** Tensorflow, PyTorch, Apache Flink, React, Next.js, Cypress, Playwright, Git, Docker, Azure, Firebase, AWS

**Certifications:** Deep Learning Specialization, Azure Fundamentals.

## Achievements

- Technical Lead of Google Developers Students Clubs VIT
- Runner up at Code for Good'23 hosted by JPMC
- Selected to be a part of Adobe Career Academy'22
- Notebooks Expert on Kaggle
- Winner of VinHack'23 and more hackathon