

# Devdatta Khoche

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## WORK EXPERIENCE

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JPMorgan Chase & Co.  
Software Engineer - Front Office

Mumbai, Maharashtra  
July 2022 - Present

- Demonstrated exceptional ownership by building, maintaining, and offering support for a high-impact FIX Execution Trading platform that deals with Order Management Systems and FIX protocols.
- Successfully led the complete migration of on-premises database servers to Amazon Web Services (AWS), delivering a substantial **50%** cost reduction for the team.
- Actively contributed to the modernization of the project by implementing new business features and enhancing its overall efficiency.
- Orchestrated a seamless migration of the project from Java 8 to Java 11, ensuring compatibility with the latest technologies and improving system performance.
- **Tech Stack: Java, Python, Unix, SQL, Shell Script**

RedCarpetUp  
Backend Development Intern

Mumbai, Maharashtra  
Apr 2021 - Oct 2021

- Contributed to the development of a secure credit card system for Redcarpet, serving over **3 million** users and ensuring compliance with industry standards.
- Streamlined Collection and Recovery workflows, optimizing the processes for collecting and recovering granted loans from partner banks.
- These improvements were instrumental in the collection and recovery team which were able to collect pending dues.
- **Tech Stack: React, Python, SQL**

QUEST-IT (Student Cell at Department of Information Technology)  
Secretary

Mumbai, Maharashtra  
Oct 2021 - July 2022

- Oversaw and led a team of students in delivering high-quality technical content to fellow students at VESIT and within the IT Department.
- In my term as a Secretary, the council orchestrated and executed five technical workshops on diverse topics including Machine Learning, Deep Learning (CNN and RNN), and Web Development as part of the council's initiatives and also successfully organized a 24-hour-long Hackathon for college students, attracting participation from over **120 students**.
- **Skills: Management**

ISTE-VESIT (Non-profit Organization at VESIT)  
Senior Technical Officer

Mumbai, Maharashtra  
Aug 2019 - July 2022

- Accountable for conducting workshops, contributing to technical events conducted by the council and developing scalable applications for any event, if required.
- As a Technical Officer, I have conducted a "Python Workshop" for **230** students and also contributed to **9** other similar workshops and 2 technical events.
- **Skills : Management and Tech**

Bennett University  
Virtual Summer Intern

Mumbai, Maharashtra  
May 2020 - Jun 2020

- Responsible for developing an algorithm for pruning deep learning models and deploying it on edge devices alongside other 5 team members.
- Successfully accomplished algorithm development for pruning deep learning models with the help of **PyTorch, and Scikit-learn**.
- Reduced the model size by **60% with the help of spectral Clustering**. The paper for the same can be found [here](#).
- **Skills: AI/ML and Neural Nets**
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## AI/ML Research AND PUBLICATION

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- [Clustering-Based Filter Pruning Approach for Efficient ConvNets](#) - Conducted research on optimizing Convolutional Neural Networks (CNNs) for efficient inference by proposing a novel cluster-based filter pruning method. This approach reduced model size, and computation cost, and achieved a **54% reduction in FLOPs**. Published in the Proceedings of NIELIT's International Conference on Communication, Electronics, and Digital Technology, Springer.

- [Comparative Study of Recommendation Algorithms on Yelp Dataset](#) - Conducted a comparative study of recommendation algorithms on the Yelp dataset, utilizing innovative weighted bipartite graph representation. Published in "ICT Systems and Sustainability" (Springer, Singapore), providing valuable insights into personalized recommender systems.

## PROJECTS

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### Wifi Indoor Positioning - ML/AI

<https://github.com/devdattakhoche/Deepblue-GOT-8>

This project aims to do positioning with the help of ESP32 and Wi-Fi routers, with the help of **ML having an accuracy of around 66%**. Technologies used - **Django, AWS, Firebase, Bootstrap, Machine Learning, Arduino IDE, leaflet js, Javascript.**

### Predict Queue Waiting Time - ML/AI

[https://github.com/devdattakhoche/Project\\_deepblue\\_Predict\\_Queue\\_wait\\_Time\\_Product](https://github.com/devdattakhoche/Project_deepblue_Predict_Queue_wait_Time_Product)

Provided time of arrival and all the tasks to be done in the hospital this project aims to predict the total time that the patient would spend in the hospital with **an accuracy of 78%**. Models used for ML - **Random Forest Regressor**

### Loan-Management-System - Python

<https://github.com/devdattakhoche/Loan-Management-System>

Developed a Loan Management System using Flask and Docker, with Python 3.6 as the base image. Implemented role-based access control for Admins, Agents, and Customers, allowing user registration, login, and loan request processing. Utilized technologies like Flask, Docker, pyJWT, PostgreSQL, SQLAlchemy, and unit tests to create a versatile system with API endpoints for efficient loan management.

### Wordle Selenium Bot - Python

<https://devsblog.hashnode.dev/wordle-bot-python>

Developed an automated Wordle-solving bot using Python and Selenium that achieves an 87.7% success rate, reducing the need for manual solving. Utilized two strategies, including randomized algorithms and letter frequency distribution, to solve Wordle puzzles on the New York Times Wordle website, with an average attempt rate of 4.64.

## ACHIEVEMENTS

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- AWS DeepRacer JPMC Global Finalist. Winner at Mumbai JPMC.
- Semi-finalists at Project DeepBlue Season 5 and Season 6 conducted by Mastek (6 months hackathon).
- Runner-up in E-disha 2020 competition, Android Development hackathon.
- Runner-up in VESIT-Hacks 2019, a 48-hour college web development hackathon.

## EDUCATION

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*Vivekanand Education Society's Institute Of Technology*  
Bachelor of Engineering - Information Technology | CGPA → 9.09 / 10

*Mumbai, Maharashtra*  
July 2022

*M.P. Deo Memorial Science College*  
HSC - Science | Percentage → 84.20 %

*Nagpur, Maharashtra*  
July 2018

*Kendriya Vidyalaya Vayusena Nagar*  
CBSE 10<sup>th</sup> Board | CGPA → 10 / 10

*Nagpur, Maharashtra*  
May 2016

## EXTRA-CURRICULAR ACTIVITIES

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- Cluster level Winner and Regional level Athlete in Middle distance Running - 600 meters
- Runner-up in short filmmaking in UTSAV (Cultural event)
- Group Dance and solo Dance participant in UTSAV (Cultural event)
- Drummer in a band at Grad Event at JPMC
- Departmental Advisory Board member in the IT department for the year 2022
- Published articles on web3 and Data structures on [Hashnode](#).

## CERTIFICATIONS

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- AWS Solutions Associate Architect - SAA CO3
- NVIDIA DLI Certificate - Deep Learning for Computer Vision
- Python in Containers - Docker