Devdatta Khoche

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WORK EXPERIENCE

JPMorgan Chase & Co. — *Mumbai, Maharashtra*
Software Engineer - Cash Equities — *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 development and delivery by **75%**.
- 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: Python, Java, React, Unix, SQL, Shell Script**

RedCarpetUp — *Mumbai, Maharashtra*
Backend Developer — *Apr 2021 - Oct 2021*

- Contributed to the development of a secure credit card system for Redcarpetup, serving over **3 million** users and ensuring compliance with industry standards.
- Streamlined Collection and Recovery workflows, optimising the processes for collecting and recovering granted loans from partner banks.
- **Tech Stack: React, Python, SQL, Docker, Redis, Flask**

Bennett University — *Mumbai, Maharashtra*
Summer Intern — *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**

AI/ML RESEARCH AND PUBLICATION

- 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

Wifi Indoor Positioning - ML/AI
https://github.com/devdattakhoche/Deepblue-GOT-8
This project aims to do positioning to do indoor 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_Precdict_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. Utilised 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.Utilised two strategies, including randomised 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

- 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

Vivekanand Education Society's Institute Of Technology — *Mumbai, Maharashtra*
Bachelor of Engineering - Information Technology | CGPA → 9.09 / 10 — *July 2022*

M.P. Deo Memorial Science College — *Nagpur, Maharashtra*
HSC - Science | Percentage → 84.20 % — *July 2018*

Kendriya Vidyalaya Vayusena Nagar — *Nagpur, Maharashtra*
CBSE 10th Board | CGPA → 10 / 10 — *May 2016*

EXTRA-CURRICULAR ACTIVITIES

- 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

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