

AJAY

+91 8130324826 | Pune, Maharashtra, India

badgujjarajay@gmail.com | github.com/badgujjarajay | linkedin.com/in/badgujjarajay

WORK EXPERIENCE

- **BNY Mellon - Software Development Engineer** Jul 2022 – Present
 - Developed high-performance APIs for real-time stock market pricing information within a microservice architecture, delivering results in 8 milliseconds.
 - Streamlined critical cron jobs, automating essential application tasks and increasing team productivity by reducing manual efforts; saved 10+ hours per week.
 - Optimized APIs and database queries, resulting in a 3 times faster data retrieval rate and improved efficiency, enhancing overall system performance.
 - Wrote comprehensive unit and integration test cases covering 95% codebase, ensuring the reliability and accuracy of software solutions; minimized bug count and improved overall system stability.
- **Samsung R&D Institute, Delhi - Software Engineer Intern** Jan 2022 – Jun 2022
 - Executed machine learning tasks for Landmark Detection to detect the famous landmarks and Game Genre Recognition to find the genres of a game based on gameplay with 87% accuracy.
 - Engineered scripts to prepare and annotate dataset from the recorded videos for models to train.
 - Integrated trained machine learning models into Samsung TV, enabling real-time predictions based on TV frames.

EDUCATION

- **B. Tech in Information Technology** Aug 2018 - Jun 2022
CGPA : 8.62 | J. C. Bose University of Science and Technology, YMCA, Faridabad
- **Senior Secondary Education** Mar 2016 - Mar 2017
Score : 92% | CBSE | Jawahar Navodaya Vidyalaya, Faridabad

SKILLS

- **Core Skills** : Data Structures and Algorithms | Database | OOPs | Operating Systems | System Design
- **Back-end Development** : Spring Framework | Spring Boot | NodeJS | ExpressJS
- **Front-end Development** : HTML | CSS | Angular
- **Database Management System** : MySQL | MongoDB | Oracle
- **Languages** : C | C++ | Python | Java | JavaScript | TypeScript | Shell Script
- **Others** : Machine Learning | Deep Learning | Neural Networks | Git | GitHub

PROJECTS

- **CaptionBot** | Neural Networks | CNN | RNN | Python
 - Applied a merger model for image captioning, generating concise one-line image descriptions.
 - Employed YOLO for precise object detection, identifying diverse objects in images with 95% accuracy.
 - Developed an audio feature to narrate image descriptions, object recognition, and their spatial locations, enhancing accessibility and comprehension.
- **Image Resolution Enhancer** | Neural Networks | GANs | Python
 - Enhanced image quality 4 times by upscaling low-resolution images to high-resolution using deep learning techniques.
 - Leveraged Convolutional Neural Networks (CNNs) for advanced image processing.
 - Implemented Generative Adversarial Networks (GANs) to generate high-resolution images.
- **Entry Management System** | NodeJS | ExpressJS | EJS Views
 - Engineered a comprehensive check-in/check-out system catering to visitor management needs.
 - Built a comprehensive admin dashboard to facilitate efficient system management.
 - Integrated the EJS view engine to facilitate front-end tasks, ensuring a user-friendly experience.
- **Fruit Classifier** | CNNs | Transfer Learning | Python
 - Implemented Convolutional Neural Networks (CNNs) to achieve a 90% accuracy rate in the classification of different fruit types.
 - Curated a diverse dataset of more than 5000 images sourced from Google Images, covering a wide spectrum of fruit categories to train the model effectively.
 - Employed data augmentation techniques strategically to combat overfitting, achieving a significant 13% boost in classification accuracy, ensuring robust and reliable performance.

LINKS

GitHub : <https://github.com/badgujjarajay>

CodeChef : <https://www.codechef.com/users/badgujjarajay>

Codeforces : <https://codeforces.com/profile/badgujjarajay>

LeetCode : <https://leetcode.com/badgujjarajay/>