AMIT MAHAJAN

Dombivli, Thane - 421203, Maharashtra, India
Email: amit.nitro@gmail.com | Tel: +91-8828301921 | GitHub | LinkedIn | Portfolio

EDUCATION

K.J. Somaiya College of Engineering, Mumbai, India   **Aug 2016 - Oct 2020**
Bachelor of Technology (B. Tech.) in Computer Engineering   **CGPA:** 9.06/10
Relevant Coursework: Data Structures, Analysis of Algorithms, Web Technologies, Artificial Intelligence, Machine Learning, Digital Signal and Image Processing, Applied Mathematics, Theory of Computer Science, Discrete Structure and Graph Theory

PROFESSIONAL EXPERIENCE

BrowserStack, Mumbai, India   **Jul 2021 – Present**
Software Engineer
- Responsible for implementing CRON jobs to pull the data from various sources, transform it into required format and store it into data repositories.
- Create visualizations for the Engineering Metrics using various data visualization tools.
- Automated the shard-rebalancing of Elastic Search Clusters for multiple regions.
- Managing alerts for the machine by monitoring as well maintaining their uptime percentage.
- Development of the cost-governance (cost and usage) for the data-platform and its associated tools.

CarWale, Mumbai, India   **Nov 2020 – Jul 2021**
Associate Software Development Engineer
- Migrated the codebase from .NET Framework to .NET Core for the entire repository.
- Unified from scratch the Campaign requirements of Carwale and Bikewale.
- Designed and implemented a class library in C# for distance matrix calculation using OSRM and Google-Maps APIs.
- Worked on the product website to improvise the request-response cycle by optimizing backend and code quality.
- Contributed towards development of the Operations panel for the back-office team to maintain the website content.

CarWale, Mumbai, India   **Dec 2019 – Jan 2020**
Software Development Intern
- Designed and implemented a class library in C# for URL-shortening using Singleton and Factory design patterns. Achieved a 96% test coverage for the library.
- Worked on the Operations panel to develop UI for page-property-template mapping.

K.J. Somaiya College of Engineering, Mumbai, India   **Jun 2018 – Jul 2018**
In-house Web Development Intern
- Developed a faculty data-management web-portal for the internal use.

RESEARCH PAPER

1. **Amit Mahajan**, Nishit Patel, Akshay Kotak, Dr. Bhakti Palkar. "*An End-To-End approach for Automatic and Consistent Colorization of Grayscale Videos using Deep Learning Techniques*". Springer Series – Proceedings of International conference of Machine Learning and Data Science Applications. Online ISBN – 978-981-33-4087-9
Secured the Best Paper Award in the MIDAS 2020 Conference.

ACADEMIC PROJECTS

Video Colorization
- A research project to devise an approach for consistency-based video colorization using Computer Vision and Deep Learning techniques.
- Devised an algorithm for identifying the keyframes from the video to transfer the color from them to the related grayscale frames to reduce the aberrant color differences between successive frames, thereby maximizing consistency.

Wake-Up
- A system prototype that incorporates camera-based eye-tracking to detect the driver drowsiness based on the blinking pattern. Used frame aggregation for minimizing the computations.
- Alerts the driver through sound if a threshold is reached based on eye blinking pattern.

Tab Overflow
- Developed and published a chrome extension to manage the browser tabs to access them from any device.
- Implemented the encryption for the user-sensitive data to ensure privacy.
- Implemented the feature for sorting and grouping the tabs based on their relevance.
- Added feature for the sharing of group of tabs between different users.

Intelli-Notes
- Developed a system that converts speech to text to create a transcript of the audio and take down the minutes of a meeting using NLP.
- Used Google Speech to Text APIs for real-time and accurate transcription.
- Implemented a bag-of-words model for keyword extraction and text summarization.

Budget Book
- Hackathon based web-app for expense management. Includes features like tracking the monthly spending, monthly income, setting reminders for recurring Utility Bills.
- Used Chart.js for data visualization of the spending and savings.

TECHNICAL SKILLS

- Languages: Python, C#, Java, Ruby, JavaScript, Groovy
- Web Technologies: .NET Core/Framework, Django, NodeJS, ReactJS, Ruby-on-Rails, PHP
- Tools: Android Studio, MATLAB, Selenium, Git, AWS, Looker, Big Query
- Databases: MySQL, Firebase, MongoDB

ACHIEVEMENTS

- Recipient of the INSPIRE Scholarship for securing a ranking amongst the top 1% of the state in the class XII Board examinations.
- Secured a rank in the Maharashtra State Scholarship Examination in 7th Standard.
- Meritorious in the Pradnya-Pravinya State Mathematics Examination in 5th Standard.
- Represented Maharashtra State in the National Level 9-A-Side football tournament.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- Contributed towards spreading the Cyber Security awareness in the schools, colleges, and rural areas.
- Technical Team Member of the KJSCE Outreach Council. Responsible for developing a website and a mobile application for the same.