Mahesh SP

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# Education

**RV College Of Engineering** 2018-2022

*Bachelor of Engineering in Information Science (GPA: 8.57/10) Bengaluru*

# Experience

**IBM Apptio** September 2022 – March 2023

*Software Development Engineer-1 Bengaluru*

* Contributed to the development of **ITP**’s Integrated Investment Planning module features and resolved bugs in the

**Activity Tracking** Module for **Vanguard** Applications, which heavily involved use of spring boot and AWS services.

* Optimized MySQL database queries of Integrated Investment Planning’s **cost center, cost object and LaborActivity**

tables, reducing page load times by **15%** and enhancing overall application performance.

* Implemented numerous UI features for the **ITP** application using **React**, ensuring comprehensive test coverage. This effort resulted in a **10%**increase in client engagement rates, as determined through **A/B** testing.

**IBM Apptio** March 2022 – July 2022

*Software Engineer Intern Bengaluru*

* Contributed to performance optimization efforts through **Router stories** and automation of deployment tasks within the **Van-plat** team.
* Worked on comprehensive debugging and test case development to ensure robust coverage across the codebase, with a focus on both backend and frontend issues within the **ITP** application.

# Projects

**Campus-Buzz** *| [](https://github.com/maheshsp1809/campus-buzz/)* [Github](https://github.com/maheshsp1809/campus-buzz/) *|* [Deployed Link](https://campus-buzzz.vercel.app/) *|* [Demo Video](https://www.loom.com/share/ff57315a859a479e9660bd6baa485c67)

* Developed a feature-rich **Full-Stack** social media platform using Next.js, TypeScript, and a modern tech stack Designed and implemented core features such as post creation, commenting, **Image/video uploads**.
* Designed a scalable and eﬃcient **monorepo**-based application: Implemented a **Prisma**-based backend with a Neontech **Postgresql** database for handling CRUD operations related to posts, feeds, and communities.
* Prioritized core functionality, while adhering to best practices for securing API routes, handled authentication/authorization using nextAuth (**gmail signin**), and optimized database queries for performance.

**NetflixGpt-4** *| [](https://github.com/maheshsp1809/NetflixGpt-4/)* [Github](https://github.com/maheshsp1809/NetflixGpt-4/) *|* [Deployed Link](https://netflix-gpt-4-maheshsps-projects.vercel.app/) *|* [Demo Video](https://www.loom.com/share/56b6dac09fc845d093288024fa540b4c)

* Developed a User-friendly movie exploration platform using React.js, Tailwind CSS, **Redux Toolkit**, **Firebase Authentication**, TMDB API, OpenAI API, and memoization techniques.
* Leveraged the power of **OpenAI’s GPT-3.5** API to integrate natural language movie search capabilities into the

**TMDB API**, enhancing user experience by enabling intuitive and conversational movie searches.

**Urban Sound Classification Using Artificial Neural Networks** *| [](https://ieeexplore.ieee.org/document/10060146)* [Research Paper Published IEEE](https://ieeexplore.ieee.org/document/10060146)

* Developed a Model using **Artificial Neural Networks (ANN) and Used Mel-Frequency Cepstral Coeﬃcients (MFCC)**

feature extraction technique, achieving an accuracy of **87%** on the **Urban Sound 8k** dataset.

* Evaluated the model’s performance using multiple metrics, including **10-fold cross Validation classification accuracy, precision, recall, F1-score, and confusion matrix**.

# Technical Skills and Interests

**Languages**: HTML, CSS, Javascript, TypeScript. Java, Python, C++, C

**Technologies**: React js , Node js, Spring Boot, Hibernate, JDBC, JSP,Rest API, Express js, MySql, MongoDB, Postman, Prisma, GraphQl, Monorepo, AWS, Next js, TailwindCSS, Docker, Redux Toolkit, Git, CI/CD Github Actions,Mysql

**Concepts**: Data Structures and Algorithms, Object Oriented Programming, Database Management System, Design Patterns, Web Development, Artificial Intelligence and Machine Learning, Computer Networks, Operating Systems. **Other Skills**: troubleshoot and debug software programs, Testing applications, tools, and networks, Analytical reasoning.

# Achievements And Certifications

Ranked **3rd** Position in the IBM Apptio Global Innovation Hackathon for the Project ATMS. Solved **241** coding ninja challenges and more than **450** DSA problems across platforms.

Completed **100-x Devs** Cohort 1 at Appx. Completed System design Course by Gaurav sen.

microservices architecture, vector database, large language models, Langchain, llamaIndex, prompt engineering, model fine-tuning, DevOps