SHWETHAA RAJESH

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EDUCATION

PSG College of Technology, *B.Tech. Information Technology* **Tamil Nadu, India**
CGPA: 9.23/10 Aug 2018 – Jul 2022

Relevant Coursework: *Data Structures, Operating Systems, Database Management Systems, Computer Architecture, Object Oriented Model and Design, Software Engineering, Design and Analysis of Algorithms, Advanced Data Structures, Theory of Computing, Cloud Computing, Data Mining, Internet of Things, Deep Learning, Java Programming, Programming in Python, Information Security*

EXPERIENCE

Software Developer I, **Mckinsey & Company**, Bengaluru, India Aug 2022 – Jan 2024

- Responsible for communicating with team members and client stakeholders, provided regular updates, clarified requirements, and addressed project risks
- Led a team of six interns and developed a Figma plugin for design-to-code conversion to reduce development time by 80%
- Spearheaded the development of a Figma plugin in collaboration with top designers, creating a powerful tool for seamless global configuration updates, significantly reducing manual efforts and expediting prototype iterations.
- Contributed to the development of a React Native application for a real estate client, implementing advanced camera libraries, Azure Notification Hub, image optimization, accessibility features, custom pull-to-refresh functionality, and precise pixel-perfect design, ensuring exceptional performance and user experience.
- Effectively onboarded and mentored new colleagues, showcasing adaptability in working with the new technology framework Builder.io

Software Engineering Intern, **Mckinsey & Company**, Bengaluru, India Feb 2022 - Jul 2022

- Completed an intensive 8-week program encompassing frontend, backend, and cloud development, consistently delivering mini applications weekly
- Worked on a project building an e-commerce application, and contributed to the delivery of many components including filtering and search optimization
- Showcased remarkable skills by optimizing search load times by 1.5x, enhancing performance by 3x, and achieving a perfect accessibility score of 100%. Proficiently implemented design changes while adhering to project timelines.

Research Intern, **Samsung PRISM**, Bengaluru, India Sept 2020 – Nov 2021

- Led development of a deep learning neural network model to estimate Mean Opinion Score (MOS) for VoIP calls, achieved a *91% accuracy rate*
- Conducted data aggregation of noise recordings and merged them with clean speech samples, employing a tailored algorithm for simulating varied background noise levels
- Proposed and used *Mel-frequency cepstral coefficients* (MFCCs) for audio signal preprocessing, achieved a reduction in MSE from *0.21 to 0.167*

PROJECTS

- ***Assessing Audio Quality using Deep Learning****:* Developed non-intrusive deep learning models for VoIP MOS prediction on custom datasets with MFCC features; achieved superior accuracy with Bidirectional LSTM and faster execution with Bidirectional GRU, showcasing competitive performance against state-of-the-art models.
- ***Classification of DBT Images for Breast Cancer Detection*****:** Designed a deep learning model using ResNet and VGG models for accurate DBT image classification, contributing to early breast cancer detection.
- ***Movie Recommender System***: utilizing Python libraries and frameworks, applied collaborative filtering and content-based algorithms to create a technically sound Movie Recommender System and also managed end-to-end model development to improve recommendations' accuracy

TECHNICAL SKILLS

Languages: Javascript, Typescript, Python, Java, C#, C++, PHP, HTML/CSS, XAML
Frameworks: ReactJS, React Native, NextJS, Xamarin, .NET MAUI, Express, GatsbyJS
Developer tools: Git, Docker, VSCode, Visual Studio, Android Studio
Libraries: pandas, NumPy, Matplotlib, Scipy