

Rutvik Varankar

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EDUCATION

S.S. & L.S. Patkar College of Arts & Science | CGPA: 8.66

Mumbai

Bachelor of Science in Information Technology

Jun 2022 – Present

P.T.V.A.'s Sathaye College | Stream: Science

Mumbai

Higher Secondary Certificate

Jun 2022 – Jun 2022

PROJECTS

AudioCompanion | Desktop Voice Assistant

Nov 2024 – Jan 2025

Developed an AI-powered voice assistant for hands-free automation and smart system control.

- Developed a desktop voice assistant with 20+ functionalities, enabling hands-free system interaction.
- Integrated speech recognition (Vosk), text-to-speech (pyttsx3) and web automation for seamless user experience.
- Implemented application control, YouTube automation, news updates, messaging, and scheduling features.
- Designed a focus mode that blocks distractions and generates productivity insights.
- Engineered schedule-making, Google translation, and password-protected access for enhanced usability.

Drowsiness Alarm System

Dec 2022 – Jan 2023

Developed a smart Drowsiness Alarm System to prevent sleep-related road accidents.

- Developed an advanced Anti-Sleep Alarm System to effectively mitigate sleep-deprivation-related accidents, which contribute to nearly 40 percent of annual road crashes, enhancing driver safety.
- Utilized an eye-blinking sensor to detect drowsiness and trigger a warning alarm if necessary.
- Implemented an automatic engine shut-off mechanism via a relay if the driver remains unresponsive.
- Seamlessly integrated with Advanced Driver Assistance Systems (ADAS) to further enhance road safety, significantly reducing sleep-related accidents and improving overall driving security.

CERTIFICATIONS

Machine Learning Specialization | Stanford | DeepLearning.AI

Jun 2024

- Gained in-depth expertise in regression and classification techniques for predictive modeling, enhancing decision-making accuracy and optimizing performance across diverse real-world applications.
- Learned and implemented supervised learning algorithms, including linear regression, logistic regression, and decision trees, to develop high-performance models for structured data analysis and forecasting.
- Explored and applied unsupervised learning methods such as clustering (K-Means, hierarchical) and dimensionality reduction (PCA, t-SNE) to uncover hidden patterns and insights from complex, unlabeled datasets.
- Gained hands-on experience with neural networks and deep learning architectures, including feedforward networks, CNNs, and RNNs, for advanced AI applications such as image processing, natural language understanding.

IBM Certified Professional Full Stack Developer

May 2024

- Completed 12 courses covering Full Stack Development and Cloud Computing.
- Hands-on experience with HTML, CSS, JavaScript, GitHub, React, Node.js, Python, Django, SQL, NoSQL.
- Worked with DevOps, CI/CD, Docker, Kubernetes, OpenShift, Microservices, and Serverless computing.
- Developed and deployed cloud-native applications, completed a capstone project, and delivered a SaaS solution.

CISCO Certified Data Analytics Essentials

Jan 2024

- Learned the fundamentals of data analytics, including data processing and transformation.
- Gained proficiency in using analytics tools such as Excel, SQL, Power BI and Tableau for data analysis.
- Applied statistical and data preparation techniques for effective decision-making.
- Completed hands-on labs and developed a project portfolio demonstrating analytical skills.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R

Frameworks and Packages: React, Node.js, Flask, FastAPI, Pandas, NumPy, Scikit-Learn, Tensorflow, Matplotlib

Developer Tools: Git, Docker, Cloud Platform, VS Code, Visual Studio, PyCharm, Jupyter Notebook