







SAHIL PATEL

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EDUCATION

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| Charotar University of Science and Technology (CHARUSAT) , Gujarat, India | 2020-2024 |
| <i>B.Tech Computer Engineering</i> | CGPA: 9.35 |
| Parth School of Science and Competition , Vadodara, India | 2018-2020 |
| <i>(HSC - GSEB)</i> | Percentage: 82.09 |




SKILLS

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| Languages | : C/C++, Python, JavaScript/TypeScript, HTML/CSS3, SQL, C# |
| Tools | : Git, Jupyter Notebook, VS Code, Docker, Power BI, SQL, MongoDB, PostgreSQL |
| Frameworks | : Next.js, Langchain, Angular, .NET, Material-UI, Tailwind CSS, ASP.NET MVC |
| Libraries | : NumPy, TensorFlow, Pandas, Matplotlib, Scikit-learn, MEAN-Stack, React |
| Platform | : AWS Sagemaker, DynamoDB, CloudWatch, Lambda, CodeCommit |



EXPERIENCE

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| Digiflux Technologies Pvt Ltd <i>Associate Software Engineer</i> | Vadodara, India |
| Developing and integrating AI models. Built responsive UIs using React.js , ensuring seamless user experience. | Jan 2024 – Present |
| Collaborating with cross-functional teams to deliver high-quality software. | |
| Deployed & managed ML applications with LangChain , OpenAI , AWS Sagemaker , Docker . | |
| Larson & Toubro <i>Machine Learning & Web Development Intern</i> | Vadodara, India |
| Web Development Intern May-July 2023 - L&T Technology Services - Designed and implemented web request forms | May 2023 – July 2023 |
| Machine Learning Intern May-June 2022 - L&T Energy-Power - Developed AI Chatbots using RASA . | May 2022 – June 2022 |
| Streamlined client interactions and data collection using C-Sharp and JavaScript in ASP.NET MVC and ASP.NET Core | |
| Motorola Solutions <i>Internship Trainee</i> | Bangalore, India |
| MEAN Stack Developer Role and Elective Course Proficiency Specializing in Node , Express , Angular , SQL , etc. | May 2022 – Nov 2022 |

PROJECTS

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| Lip Reading Word Classification & Fruit and Vegetable Detection App  |
| <i>Flutter, Python, CNN</i> |
| <ul style="list-style-type: none">Developed a CNN-based lip-reading model (MIRACL-VC1 dataset), achieving 93% training accuracy and 53% validation accuracy.Built a mobile app for fruit & vegetable classification, attaining 88% accuracy on a custom dataset of 3,115 images. |
| Tuition Classes (Student Management) - VCC POINT  |
| <i>TypeScript, CSS, Angular JS, Node JS, Git, MongoDB</i> |
| <ul style="list-style-type: none">Engineered a comprehensive web app for student, faculty, and admin management with secure user authentication.Optimized operational efficiency by streamlining workflows and automating processes. |
| Pre-Exam Question Paper Quality Test |
| <i>RNN, LSTM, Bi-RNN, Bi-LSTM, BagOfWords, GloVe, SkipGram, BERT</i> |
| <ul style="list-style-type: none">Developed an AI-driven system to categorize and score exam papers, achieving 98.04% accuracy on 2,809 instances.Leveraged Deep learning models including Bi-LSTM, BERT for automated quality evaluation. |
| Meal Subscription Chatbot & Times Series Sales Prediction and Forecasting  |
| <i>Nextjs, Langchain, Python, OpenAI, LLMs, Sagemaker, MRKL Systems, MongoDB, CNN+LSTM, Random Forest, ARIMA, SARIMAX</i> |
| <ul style="list-style-type: none">Designed an AI chatbot for automating meal subscriptions, reducing manual intervention.Built a sales forecasting model (CNN+LSTM, Random Forest, ARIMA, SARIMAX) with 93.17% accuracy on live data. |

PUBLICATIONS / ACHIEVEMENTS / POSITIONS OF RESPONSIBILITY

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| <ul style="list-style-type: none">Revolutionizing Educational Assessment: Deep Learning for Question Paper Quality Evaluation Springer | ICTIS 2024 |
| <i>Presented at the ICTIS-2024 Conference. (View Paper )</i> | |
| <ul style="list-style-type: none">Enhancing Small Object Detection in Aerial Imagery Using YOLOv8 Architecture: A Study on Small Bird Detection AIP | ICRAIC 2024 |
| <i>Presented at the ICRAIC-2024 Conference. (View Paper )</i> | |
| <ul style="list-style-type: none">Attended and Participated in the Indian Symposium on Machine Learning (IndoML 2022) hosted by IIT GandhinagarCompleted the GCCP campaign by Google (2022) and Google Cloud Study Jams (2023)Participated in National Level Azadi Ka Amrit Mahotsav Hackathon 2022Charusat Learning and Development Club AI/ML Core Team (provided the corporate culture and academics)Participated in the National West Zone Inter-University Football Tournament in 2022 and 2023 | |