SHAUNAK VARUDANDI

Phone: +91-9769476504 LinkedIn: linkedin.com/in/shaunak-varudandi/

Email: varudandishaunak@gmail.com Portfolio: https://shaunakvarudandi.netlify.app/

EDUCATION

2014/07-2020/04 Bachelor of Technology, Computer Engineering. (Six Years Integrated Program)

- Mukesh Patel School of Technology Management and Engineering, NMIMS University, Mumbai.
- Cumulative Grade Point Average (CGPA) - 3.4/4.

TEST SCORES

IELTS: 8.0/9.0 [L: 8.5, R: 8.0, S: 7.5, W: 7.0] GRE: 313/340 [V: 153, Q: 160, AWA: 4.0]

PROFESSIONAL EXPERIENCE

Software Engineer (Trainee), *MobiNext Technologies Pvt Ltd.* (2020/10-Present)

MobiNext Technologies is an engineering services provider with industrial expertise in the Automotive, Healthcare, Telecom, and Engineering sectors. I develop software applications using Python and C# and later, integrate these applications into the parent systems. The projects that I have completed during my tenure at MobiNext Technologies are listed below:

- Created an Image Compression and Document Compression Application that helped the client save approximately 15% of their file storage space while saving PDF documents or Images.
- Developed a Web Application Portal that aimed at digitizing the paper-based form system which was prevalent at the client location. The application set into motion the client's quest to become carbon neutral by 2035.

Volunteer, *Mantissa Data Science.* (2020/01-Present)

Mantissa Data Science is a non-profit organization that conducts Data Science meetups across India. I am responsible for organizing Data Science meetups in Mumbai and I am entrusted with the following responsibilities:

- Approach potential speakers, communicate with them and assist them with presentations if required.
- Creation of Google Sheets to record registrations and sending out invitations to the registered members.
- Assist with setup and logistics at the location of the meetup.

IoT Solution Architect (Intern), *Expert Global Solutions Pvt Ltd*. (2019/06-2020/04)

Expert Global Solutions is a design and services company that specializes in Engineering, Manufacturing & Digital Technology. I was part of the IoT department of the company and was responsible for creating end-to-end IoT solutions for clients present in the automobile, pharmaceutical, and automation sectors. Creation of each IoT solution includes the below-listed activities:

- Identify the client pain areas and propose an IoT based solution that Increases Revenue and Decreases Downtime.
- Creation of solution flowcharts and system architectures to clearly communicate proposed IT infrastructure reforms.
- Identify and suggest IoT hardware to the production team in order to expedite the deployment of the proposed system.

PUBLICATIONS

S. Varudandi, R. Mehta, J. Mahetalia, H. Parmar and K. Samdani, "A Smart Waste Management and Segregation System that Uses Internet of Things, Machine Learning and Android Application," *2021 6th International Conference for Convergence in Technology (I2CT)*, *2021, pp. 1-6, doi: 10.1109/I2CT51068.2021.9418125.*

S. Varudandi, J. Mahetalia, R. Mehta and K. Samdani, "A Comparative Study on Gesture Recognition Systems for Car Infotainment Systems", *2018 IEEE International Conference on System, Computation, Automation and Networking (ICSCA)*, Pondicherry, 2018, pp. 1-7.

PRESENTATIONS

J. Mahetalia, R. Mehta, **S. Varudandi** and K. Samdani, "A Comparative Study on Gesture Recognition Systems for Car Infotainment Systems," Paper presented at *Technoforte: Technical Paper Presentation*

Programming Languages:	C, C++, C#, Java, Python, HTML, CSS, JavaScript, JQuery, SQL, PL/SQL, R, Prolog, Matlab
Software:	IBM Db2, Firebase, Oracle MySQL, SharePoint, Google Colab, IBM Watson Studio, PyCharm, Spyder, R Studio, Visual Studio 2019, Visual Studio Code, Heroku, AWS EC2, Google Cloud Platform, Adobe XD
Programming Libraries:	Scikit-learn, NumPy, SciPy, Pandas, Seaborn, Matplotlib, Nltk, Gensim, Spacy, TensorFlow, Keras, Flask, Gradio, Streamlit
Operating System:	Windows (8, 10), Linux (18.04, 20.04)

held in SVKM's, NMIMS, Mukesh Patel School of Technology Management and Engineering in association with The Institution of Engineering and Technology (IET), 2017.

SKILLS & ABILITIES

PROJECTS

Coronavirus Detection using Chest X-Ray.

- Created a web application that helps determine whether a patient is positive for Covid-19. Upon uploading the image of a chest x-ray, the application classifies the X-ray belonging to either the *Covid-19* category or *Normal* category.
- The front-end was developed using Streamlit whereas the back-end of the application houses a Deep Learning Model combined with ResNet50. The entire application was deployed on the Google Cloud Platform using the App Engine service. The trained Deep Learning Model achieved an accuracy of 91.25% during the test phase.
- Medium Blog Link:

Fake News Classifier for Covid-19 News Articles.

- Developed a website that classifies news articles on Covid-19 into real or fake news. The website can classify news articles from around the world and still maintain accuracy of 94.4%.
- Front end was developed using HTML and CSS whereas, the Machine Learning model running at the back end is Support Vector Machine (Kernel-Linear). Lastly, Flask was used along with Heroku Cloud Platform to deploy the project online.
- Medium Blog Link: Fake News Classifier for Covid-19 News Articles

Toxic Comment Classification using LSTM and LSTM-CNN and Deployment using Amazon AWS EC2.

- Trained an LSTM and LSTM-CNN model to perform Toxic Comment Classification where the trained model classified the comments into 7 different toxicity categories and achieved an accuracy of 97.7% and 97.1% respectively.
- Additionally, developed a front-end to display the model results using the Gradio and later hosted the entire application on Amazon AWS EC2.
- Medium Blog Link: Toxic Comment Classification using LSTM and LSTM-CNN and Deployment using Amazon AWS EC2.

CERTIFICATIONS

Coursera - IBM Data Science Specialization

Coursera - Machine Learning Specialization by Washington University

ACHIEVEMENTS

3rd Position in *AGAAZ* Final Year Project Competition.
Presented my final year project, "The Segregator". The competition was organized by the Computer Engineering Department, MPSTME, NMIMS University in collaboration with Network for the Open Web Mozilla Campus Club, April 2019.

1st Position in *Technoforte* Technical Paper Presentation.
Presented my published work, "A Comparative Study on Gesture Recognition Systems for Car Infotainment Systems". The competition was organized by MPSTME, NMIMS University in association with The Institution of Engineering and Technology (IET), November 2017.

COMMUNITY INVOLVEMENT

Blood Donor

- Participated in a Blood Donation Camp on 12th July 2019, organized by Dattaji Bhale Blood Bank in Pune, Maharashtra.
- Participated in a Blood Donation Camp on 12th October 2016, organized by Mahatma Gandhi Seva Mandir Blood Bank in Mumbai, Maharashtra.