SHAUNAK VARUDANDI

Phone: +91-9769476504

LinkedIn: linkedin.com/in/shaunak-varudandi/

Email: varudandishaunak@gmail.com

GitHub: https://github.com/shaunak09vb

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 POC in Python (using PyQt5, Pillow and GhostScript) and in C# using (PDFSharp. FreeSpirePdf and System.Drawing.Imaging).
- Currently working on a Web Development project based on the MVC Framework. The technologies that I have encountered while working on this project are: C#, HTML, CSS, JavaScript, Microsoft SQL Server and SharePoint.

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

Mantissa Data Science is a non-profit organization that conducts Data Science meetups across India. Each meetup is conducted by an Industry Professional who discusses one or more aspects of Data Science or Machine Learning. 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 pain areas of the client and propose an IoT based solution for the same.
- Creation of proposed solution flowcharts and system architectures.
- Identify and suggest IoT hardware to tackle client pain areas.

PUBLICATIONS

J. Mahetalia, R. Mehta, **S. Varudandi**, H. Parmar and K. Samdani, "A Smart Waste Management and Segregation System that Uses Internet of Things, Machine Learning and Android Application", 2021 IEEE 6th International Conference for Convergence in Technology (I2CT), Pune, Maharashtra, India.

J. Mahetalia, R. Mehta, **S. Varudandi** 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* 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

Programming Languages:	C, C++, C#, Java, Python, HTML, CSS, JavaScript, SQL, PL/SQL, R
Software:	IBM Db2, Firebase, Oracle MySQL, Jupyter Notebook, Google Colab, IBM Watson Studio, PyCharm, Spyder, R Studio, Visual Studio 2019, Visual Studio Code, Heroku, Adobe XD, Figma
Programming Libraries:	Scikit-learn, NumPy, SciPy, Pandas, Seaborn, Matplotlib, Nltk, Gensim, Spacy, TensorFlow, Keras, Flask
Operating System:	Windows (8, 10), Linux (18.04, 20.04), Mac OS (10.15.7)

PROJECTS

Toxic Comment Classification using LSTM and LSTM-CNN.
- Created an LSTM and an LSTM-CNN model for Toxic Comment Classification and compared their accuracies to choose the optimum model. The LSTM model recorded an accuracy of 97.7% while the LSTM-CNN model achieved 97.1% accuracy.
- I used the Spacy library to remove Stopwords, Regex for Text Normalization, WordNetLemmatizer for Lemmatization, and lastly the Tokenizer class from Keras for converting text data into sequence vectors. Additionally, fastText's pre-trained word-embeddings were used to form the Embedding Layer of both the Deep Learning Models.
- Medium Blog Link: Toxic Comment Classification using LSTM and LSTM-CNN.

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.
- The website can be accessed via the following link: https://fake-news-covid19.herokuapp.com/.

Exploring Toronto and Searching for the Best Place to Establish an Indian Restaurant.
- Performed an in-depth analysis on each borough present in Toronto to locate an ideal place for establishing an Indian restaurant in the city. The analysis concluded that North York and Mississauga are ideal locations since the new restaurant will face minimum competition from similar eateries.
- The study also provided a list of venues that the tourists can use to explore Toronto. With the occurrence of venues categorized as High, Moderate and Low, tourists can decide the boroughs they wish to visit based on personal preference.
- Project Report: https://github.com/shaunak09vb/IBMData-Science-Capstone/blob/master/IBM_Capstone_Report.pdf

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.