Shreyas Lele

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Summary

- Successfully completed research projects based upon Reinforcement Learning, Time series forecasting, Neural Machine Translation and have published multiple research papers in these domains.
- Accomplished in handling end-to-end cloud based development projects from architectural designing to complete on-cloud deployment.
- Experienced in cloud computing, industrial analytics, server development.
- Interested in working on research oriented projects in machine learning and artificial intelligence domain.

Education

- **B. Tech in Information Technology**

Veermata Jijabai Technological Institute | July 2015 - May 2019 | **CGPA - 8.15**

Professional Experience

- **Aspire leadership program - Software Engineer | Baker Hughes, Mumbai | July 2019 – present**

Gained experience in cloud computing, analytic models, cloud-based application development.
Accomplished end to end projects based on industrial analytics and automated deployments.
Completed multiple leadership trainings on a global platform.

- **Intern | Samsung Research Institute, Bangalore | May 2018 - June 2018**

Accomplished complex servers development projects for public emergency services communications on voice over LTE.

- **Intern | Bristlecone, Mumbai | May 2017 - June 2017**

Completed a basic chat bot development training and involved in development of an internal company portal.

- **Intern | Exxon Automation Pvt. Ltd., Mumbai | May 2016 - June 2016**

Contributed in project digitalization of the Mumbai University Admission Process.
Responsibly handled on-production data of more than 3 lakh applicants.

Publications

- Kavit Gangar, Hardik Ruparel, and **Shreyas Lele**, Hindi to English: Transformer-Based Neural Machine Translation, Springer's ICCCES 2020 (accepted, in process for getting published)
- **Lele, Shreyas** and Gangar, Kavit and Daftary, Harshal and Dharkar, Dewashish, Stock Market Trading Agent Using On-Policy Reinforcement Learning Algorithms (April 21, 2020), Elsevier's SSRN(link)
- **Lele, Shreyas,** Oil-well Flow-Rate Forecasting Using Auto-Regressive Model (December 12, 2019), Elsevier's SSRN(link)
- **Shreyas Lele,** Analysis of Well Head Pressure Sensor Data for Anomaly Detection in Oil Well using IIoT and Unsupervised learning Technique, IRJET vol:06, issue:10, Oct 2019 (link)

Projects

• **Transformer-based Neural Machine Translation for Hindi to English | Aug 2020**

Developed a model for neural machine translation for low-source Hindi language to English using transformer, Byte pair encoding and back translation and achieved state-of-the-art scores of the evaluation metrics.

• **Forecasting flow-rate for oil-well using autoregressive model| Dec 2019**

Analysis and prediction of the flow-rate, based on continuous data from sensors mounted on the oil well using ARIMA models and PCA.

• **Anomaly detection using Unsupervised learning | Oct 2019**

Detected the anomalies in the time-series data of the well head pressure sensors using isolation forest.

• **Stock trading agent using reinforcement learning| Aug 2018 - Mar 2019**

Developed an intelligent trading agent which trades stocks using on-policy reinforcement learning algorithms.
Constructed an OpenAi gym compatible environment which simulates a stock market in which an agent can take trading decisions to earn rewards.

• **ABU Robocon 2017 (national robotics competition) | Dec 2016 – Mar 2017**

Developed as a team, a partially automated bot for holding and shooting frisbees which uses line-following for movement.
Determined visual feedback using Computer Vision and Microsoft Kinect.

• **Virtual musical instruments, SRA, VJTI | May 2016 – July 2016**

Constructed a system of virtual drums and keyboard, playable by moving hands in mere air
Accomplished motion detection using Microsoft Kinect and programmed using C++.

Skills & Interests

Computational : C++, Python, NodeJS, SQL

Domains: Machine Learning, Time-Series Analysis, Cloud-Computing, Conceptual-Designing, Application development, Cloud Deployment

Linguistic : English, Marathi, Hindi

Other : Cricket, Football, Guitar, Computer Gaming

Other activities

• Completed Deep learning specialization (deeplearning.ai).

• Completed 2 week professional leadership trainings with Baker Hughes at Houston,TX.

• Delivered lectures and workshops based on Overview of Machine Learning, basics of Embedded C programming, motion sensing, line following robots, basics of computer vision to juniors at VJTI's Society of Robotics and Automation.

• Involved in sponsorship & event coordination team for VJTI's Sports fest .

• Represented and captained the school's cricket team for inter school tournaments.