SAGAR PATIL

Senior Software Engineer at Fast Retailing Co. Ltd. sagarpatil001@outlook.com | https://byte7.github.io

EXPERIENCE

Fast Retailing Co. Ltd.

Tokyo, JP

Software Engineer (Senior -2)

Jun. 2019 - Present

- Worked in the Enterprise Development team for SCM.
- Built internal functions and screens for Business Users.
- Design and Optimize internal business process for users.

BizTime IT Solutions Ltd.

Bangalore, IN

Java and Front End Developer Intern

Jun. 2017 - Jul. 2017

Jul. 2017 - Sep. 2017

- Designed the UI and developed the front end of data portal. Validated using Bootstrap and filtered the incoming data using Java.
- Sped up the internal web interface loading time by over 25x after optimizing runtime dependencies.
- Built a web app to visualize results Lead and managed team of ten developers to identify invalid raw logs before analysis.

AdvoMate UI and Front End Developer Intern Mumbai, IN

• Designed the UI for prototype of the product. Implemented the front end for MVP using Materialize framework.

- Developed scripts for artificial database generation and testing using PHP and python.
- Built UI for a document making web app using Bootstrap and Materialize.

AlgoWiki

Mumbai, IN

Core Collaborator and Maintainer

Oct. 2017 – Present

Open source contributor to the knowledge repository AlgoWiki. Used in a workshop organized at MIT.

Sardar Patel Institute of Technology

Mumbai, IN

Undergraduate Teaching Assistant, Department of Information Technology

• Designed Lab coursework and post lab assignments for Object Oriented Programming Methodology Course.

- Designed post lab assignments and course assessment quizzes for Design and Analysis of Algorithms Course.

PROJECTS

Heart Disease Analysis and Prediction

Aug. 2017 – Oct. 2017

Jul. 2018 - May. 2019

- Designed and Implemented a logistic regression model using Scikit-Learn with 87.3% accuracy for prediction of heart attack.
- Preprocessed features using NumPy, Pandas and Visualized the attribute relationship for patients and non-patients.
- Developed a Web based GUI on medical parameters to provide real time probability of heart attack.

RHESSI Mission Solar Flare Prediction

Feb. 2018 - Mar. 2018

- Preprocessed features using Pandas and Visualized the pattern in solar flare for last 15 years using Seaborn and Matplotlib.
- Evaluated seven models for energy range prediction. Recommended Gradient Boosting Classifier with 86.78% accuracy.
- Verified the existence of Solar cycle and Sunspot generation through data visualization.

Open AI Request for Research Language Models

Apr. 2018 - Oct. 2018

- Designed and Implemented a word level language generative model on a joke's dataset using stacked bidirectional GRU in PyTorch.
- Implemented a transformer model using fast weights in Keras and generated jokes with moderate level of humor.

Hemiplegia Detection using Convolutional Neural Networks

Aug. 2018 – Apr. 2019

- Designed and Implemented simple and deep CNNs using Keras with accuracy of 98.35 % and 77.87 % respectively.
- Preprocessed images & videos and extracted skeleton features of patients using Ffmpeg and Keras.
- Implementing custom PoseNet for real-time detection of hemiplegia.

All projects (15+) are open source and available on GitHub

ACHIVEMENTS

• TechGig AI Hackathon 2018 – Secured 1st place out of 8514 participants across India. Awarded as Round II Champions.

May. 2018

• SIGPwny Intro CTF 2017 – Secured 10th place globally in 12-hour Capture The Flag competition.

Jun. 2017

TECHNICAL SKILLS

Languages/Technologies: Python, Java, C, Machine Learning, Deep Learning, Git, SQL.

Frameworks: Keras, Spring Boot, Scikit-Learn, NumPy, Pandas, Matplotlib.

EDUCATION

B.E. Information Technology (Jul. 2015 – Jun.2019) Sardar Patel Institute of Technology

(2015)Kendriya Vidyalaya No.2, Belgaum Matriculation (CBSE) (2013)

Kendriya Vidyalaya Umroi, Shillong

CGPI - 8.65/10.00

Score - 91.60%

Intermediate (CBSE)

CGPI - 10.00/10.00