Subham Sarkar

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EDUCATION

Haldia Institute of Technology August 2014 - June 2018

Bachelor of Technology, Computer Science and Technology CGPA 8.73

BSF Sr. Secondary Residential School(CBSE)

Higher Secondary, Bio-Science

April 2012 - June 2014

Percentage: 89.80 %

Good Shepherd School , Bagdogra(ICSE)

March 2011- March 2012

Percentage: 85.14 %

PROFESSIONAL SUMMARY

I am an aspiring Data Scientist/ML Engineer. I am a result focused software developer currently working at Cognizant with experience in developing robust code for high-volume businesses. Presently, working on collaborating Machine Learning with Digital Marketing in deciding relevance with respect to offer integration, template content selection etc. Interested in devising solutions for challenging tasks, learning and applying new technologies and tools. An enthusiastic team player with a can-do attitude and a strong user focus.

Also during my internship as ML-Intern with AITS ,I worked closely with the team on their open-source project-"DNNCompiler" which is an alternative to Tensorflow but for low form-factor devices(micro-controllers) like Raspberry Pi etc. trying to bring the power of Deep Learning to the micro-controllers.

- I am also a blogger and I write blogs on Machine Learning on Medium(https://medium.com/@kingsubham27)
- Also checkout my portfolio : (https://subhamio.github.io/SubhamSarkar-PortfolioWebsite/)

SKILLS AND COMPETENCIES

Technical: Python, Machine Learning, Deep Learning, NLP, Computer Vision, Flask, Jinja Templating, SOAP UI, Big Data, Statistical Modelling, TensorFlow, Keras, Pandas, NumPy, Seaborn, Matplotlib, MySQL, Oracle 11g, Adobe Campaign, Java(J2EE, JSP, Servlets), Microsoft Office Suite.

BUSINESS EXPERIENCE

Programmer Analyst-Cognizant Technology Solutions, Kolkata, India

July 2018 - Present

- Experience in developing and testing fully automated campaigns in Adobe Campaign using Javascript and SOAP calls
- Experience in optimising the campaigns.
- Experience in developing data export and import workflows in Adobe Campaign.
- Designing Data Schema, Input Forms, Navigation Hierarchies, WebApps etc. in Adobe Campaign.
- Defining typology(business) rules to execute unwanted or duplicate target audience.
- Finally, deployment in Production.
- Blogs: Machine Learning in Digital Marketing (Churn Prediction)

Machine Learning Engineer Intern, Al-Technology and Systems(AITS)

July 2019-Sep 2019

- Contributed to an open source project "DNNCompiler" which is an alternative to Tensorflow but for low form-factor devices(micro-controllers) like Raspberry Pi etc.
- Every small smart device has a micro controller fitted into it. We are trying to bring the power of Deep Learning to the micro-controllers using the "DNNCompiler".
- Here is a small video to demonstrate how to use DeepC Compiler: https://www.youtube.com/watch?v=oUnob-dCJwmE

PROJECTS

Image Captioning using Attention Mechanism (Deep Learning, Flask, HTML, VGG-16, LSTM, Attention, Python)

• Caption generation is a challenging artificial intelligence problem where a textual description must be generated

for a given photograph

- Extension of classic Encoder-Decoder models and usage of Attention Mechanism.
- API'fied the setup using Flask.
- Medium: https://medium.com/@kingsubham27/image-captioning-using-attention-mechanism-f3d7fc96eb0e
- **Github:** <a href="https://github.com/SubhamIO/Image-Captioning-using-Attention-Mechanism-Local-Attention-and-Global-Attention-Mechanism-Local-Attention-and-Global-Attention-a

Stock Market Prediction using LSTM (Deep Learning, Web Scraping, HTML,LSTM, Python, Beautiful Soup, Quandl)

- Predicting NIFTY 50 index movement for 7 days period.
- LSTM layers are used in eras to predict NIFTY 50 index movement for 7 days.
- Medium: https://medium.com/@kingsubham27/stock-market-prediction-using-deep-learning-b71ae6fea740
- Github: https://github.com/SubhamIO/Stock-Market-Prediction-using-LSTM

Netflix Movie Recommendation System (Deep Learning, Machine Learning, Python, SVD, SVD++)

- **Netflix** provided a lot of anonymous rating data, and a prediction accuracy bar that is 10% better than what Cinematch can do on the same training data set.
- Accuracy is a measurement of how closely predicted ratings of movies match subsequent actual ratings.
- **Techniques Used**: Surprise Library for Recommendation System, SVD, SVD++ etc.
- Github: https://github.com/SubhamIO/Netflix-Movie-Recommendation-System

On the Plague Trail ML Challenge (Machine Learning, Random Forest, XGBoost, MultiOutputRegressor, Python)

- To develop a machine learning algorithm for predicting the total number of people infected by 7 different pathogens.
- This is a Multi-Output Regression Problem where we need to predict 7 output columns.
- Significance of this study is to study the causes of plague and ways to minimise it using Machine Learning.
- LeaderBoard Score achieved: 88.19 and HackerEarth Rank achieved: 69
- Medium: https://medium.com/@kingsubham27/hacker-earth-challenge-on-the-plague-trail-a7794e22f458
- Github: https://github.com/SubhamIO/HackerEarth-Challenge-On-the-Plague-Trail

Predicting House Prices using classical Machine Learning and Deep Learning Techniques. (Machine Learning, Deep Learning, Python)

- With **79** explanatory variables describing (almost) every aspect of residential homes in Ames, lowa, this competition challenges you to predict the final price of each home.
- This is a **Regression Problem** and the metric used is Root Mean Squared Error(**RMSE**)
- **Medium**: https://medium.com/analytics-vidhya/predicting-house-prices-using-classical-machine-learning-and-deep-learning-techniques-ad4e55945e2d
- **Github**: https://github.com/SubhamIO/House-Price-Prediction

BLOGS

- Image Captioning using Attention Mechanism: https://medium.com/@kingsubham27/image-captioning-using-at-tention-mechanism-f3d7fc96eb0e
- Calibration Techniques and it's importance in Machine Learning: https://medium.com/@kingsubham27/calibration-techniques-and-its-importance-in-machine-learning-71bec997b661
- Automatic Face Recognition: https://medium.com/ai-techsystems/auto-face-recognition-e8ee177fd04f
- Build and Deploy ML Models using AWS and Flask: https://medium.com/analytics-vidhya/build-and-deploy-an-machine-learning-model-using-aws-and-apis-1d22eadb2b83
- On the Plague Trail ML Challenge: https://medium.com/@kingsubham27/hacker-earth-challenge-on-the-plague-trail-a7794e22f458
- Predicting House Prices using Classical ML and Depp Learning Techniques: https://medium.com/analytics-vidhya/predicting-house-prices-using-classical-machine-learning-and-deep-learning-techniques-ad4e55945e2d

CERTIFICATION

- End to End Machine Learning with Tensorflow on GCP: https://www.coursera.org/account/accomplishments/certific ate/NZPQCRANJKS6
- Machine Intelligence in EDA/CAD: https://www.udemy.com/certificate/UC-QBCK8ZFY/?utm_cam-paign=email&utm_source=sendgrid.com & utm_medium=email
- AutoML in Google Cloud Platform: https://google.qwiklabs.com/public_profiles/4d35fdd 1-018c-4d74-827a-01499c588a61
- Adobe Certified Expert Adobe Campaign Classic Developer: https://www.youracclaim.com/badges/3fa21260-1109-4b74-baf1-ecdb9e08da3e/linked_in_profile

SOCIAL PROFILES

- **Github**: https://github.com/SubhamlO
- LinkedIn: https://www.linkedin.com/in/subham-sarkar-4224aa147
 Website: https://subhamio.github.io/SubhamSarkar-PortfolioWebsite/
- Medium: https://medium.com/@kingsubham27
- Quora: https://www.quora.com/profile/Subham-Sarkar-90