SUBHAM SARKAR

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EDUCATION

- **Haldia Institute of Technology**(**BTech-CSE**) : **CGPA**: **8.73/10** **Aug 2014 - Jun 2018**
- **BSF Sr. Secondary Residential School**(**CBSE**) : **Percentage** : **89.80%** **Apr 2012 - Jun 2014**
- **Good Shepherd School, Bagdogra**(**ICSE**) : **Percentage** : **85.14%** **Mar 2011 - Mar 2012**

PROFILE

Result focused **ex-Software Developer** with experience in developing robust code for high volume businesses and devising solution for challenging tasks.

Currently working as a **Data Scientist** and applying cutting edge ML technologies to solve real world problems and converting data to business achievements.

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/)

LinkedIn : https://www.linkedin.com/in/subham-sarkar-4224aa147/

EXPERIENCE

Data Scientist, Amantya Technologies ,Gurgaon **Oct 2020-Present**

PROJECT 1: AUTOML :

- Worked on developing entire **AutoML** pipeline framework using **Python**, **PySpark** .
- **Testing** : Flask WebAPIs' , REST APIs' , AWS-Chalice , Postman
- **Deployment** : AWS SageMaker, AWS-EC2 instance.

PROJECT 2: Driver Score Prediction :

- Calculating **Driver Score** using domain knowledge(**formula**) for the trips taken and using it to train model and **predicting** the scores(**Multi Class Classification**) for test data and inferences.
- **Testing** : Flask WebAPIs' , REST APIs' , Postman
- **Deployment** : Postgre SQL(Database), AWS-EC2 instance, AWS EMR Cluster Notebooks.

Developer, Cognizant Technology Solutions ,Kolkata **July 2018-Oct 2020**

- Experience in developing, testing, optimising and productionise fully automated marketing campaigns in **Adobe Campaign** using Javascript and SOAP UI.
- **Certified** in Adobe Campaign Classic Expert, Adobe Campaign Classic Architect.

Machine Learning Engineer Intern,AITS ,Remote **July 2019-Sept 2019**

- Contributed to an open source project '**DeepC**' which is an alternative to Tensorflow but for low form factor devices like microcontrollers(eg. Raspberry Pi, Arduino etc.)
- **Paper published**(**IRISS**,**IIT Gandhinagar**) : https://www.linkedin.com/posts/subham-sarkar-4224aa147_deep-neural-network-operatorsactivation-activity-6574367122120630272-s1Xi
- **Demo** : https://www.youtube.com/watch?v=oUnobdCJwmE

PROJECTS AND POC

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

  Caption generation is a challenging artificial intelligence problem where a textual description must be generated for a given photograph using Encoder-Decoder models and Attention mechanism.
  - **Medium** : https://medium.com/@kingsubham27/image-captioning-using-attention-mechanism-f3d7fc96eb0e
  - **Github** : https://github.com/SubhamIO/Image-Captioning-using-Attention-Mechanism-Local-Attention-and-Global-Attention-

- **Netflix Movie Recommendation System***(Machine Learning,Matrix Factorisation, Python)*

  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. [**Collaborative Filtering Based Recommendation**]
  - **Github** : https://github.com/SubhamIO/Netflix-Movie-Recommendation-System

- **Stock Price Prediction using Deep Learning***(Deep Learning,Web Scraping, LSTM, Beautiful Soup,Python)*

  Predicting next **n days prices** using previous **m days records.**
  - **Github** : https://github.com/SubhamIO/Stock-Price-Prediction-using-LSTM

- **Amazon apparel Recommendation System***(Machine Learning,CNN,Pairwise Euclidean Distances, Python)*

  To recommend **similar apparel products/items** in e-commerce.[**Content Based Recommendation**]
  - **Github** : https://github.com/SubhamIO/Amazon-s-Apparel-Recommendation-System

SKILLS AND COMPETENCIES

- **Programming Languages :** Python , Java , C, Javascript
- **Areas of Interest :** Machine Learning, Deep Learning, NLP, Computer Vision
- **Tools/Libraries**: Tensorflow, Keras, PySpark, Pandas, NumPy, Matplotlib, Seaborn, Tableau(Basic)
- **Databases** : MySQL, Oracle 11g, SQLite3, MongoDB
- **Frameworks and Deployments** : Flask WebAPI, AWS SageMaker, AWS Chalice, REST API, Docker, Postman, Heroku

TUTORIALS AND DEPLOYMENTS BY ME

- **Approaching any NLP Problem :** https://github.com/SubhamIO/Approach-any-NLP-problem
- **PySpark in Action :** https://github.com/SubhamIO/PySpark-in-action
- **PYCARET in Action :** https://github.com/SubhamIO/PYCARET-in-action
- **IPL Score Prediction(Heroku)** : https://ipl-1stinnings-score-predictor.herokuapp.com/
- **IPL Score Prediction(AWS-EC2)** : http://ec2-3-17-208-207.us-east-2.compute.amazonaws.com:8080
- **Diabetes Prediction(Heroku)** : https://diabetes-specialist.herokuapp.com/

BLOGS

- **Image Captioning using Attention mechanism :** https://medium.com/@kingsubham27/image-captioning-using-attention-mechanism-f3d7fc96eb0e
- **Build,Train,Deploy ML models using AWS Sagemaker :** https://medium.com/@kingsubham27/build-train-deploy-machine-learning-models-using-aws-sagemaker-4ad682acf1cd

- **Build and Deploy ML models using Flask and AWS-EC2 :** https://medium.com/analytics-vidhya/build-and-deploy-an-machine-learning-model-using-aws-and-apis-1d22eadb2b83
- **Calibration techniques 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