Buddhadeb Mondal

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4+ years of experience in Automation, Machine learning, Telecom and platform validation domain, to prepare graduates who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, research, design and implementation skills.

Employment

Senior Software Developer — **L&T Technology Services Limited** — **Feb 2021 - Present**

Post Silicon Automation & Development – Intel Corporation

- Lead the post-silicon automation team for Intel Xeon Server and Intel Optane Persistent Memory product.
- Optimize the automation flow and provide maximum up time for server platforms with Intel internal frameworks.
- Bring-up and prepare validation lab for different validation cycles like mock, Power-on, volume validation.
- The Intel Deep Learning Deployment Toolkit (Intel DLDT) of theOpenVINO toolkit supports standard layers for most of the popular Image Classification and Object Detection topologies.

Data Scientist — **Ericsson Global India Pvt. Ltd** — **Oct 2019 - Jan 2021**

- Field Revisit Prediction: Created an end-to-end model to restrict the site visit, optimizing the common issue tracking the working history, achieved 89% accuracy using NLP, Naïve Bayes theorem and python.
- Developed a machine learning model for alarm association and prediction to find the corelated alarms based on pattern of their past occurrence using gradient boosting, performed EDA, descriptive statistics on the raw data.
- Involved in data collection, cleaning, visualization, and predictive analysis of various KPIs for network monitoring.

Network Engineer — **Ericsson Global India Pvt. Ltd** — **Feb 2018 - Oct 2019**

- Individual implementation of 4 automation tools in cross platform to reduce more than 30% manpower in a year using python, selenium, NLP, seaborn, excel and socket programming.
- Expertise in Network Launch and Optimization for technologies like 5G, VoLTE, LTE, WCDMA integration, troubleshoot, customer handling, project planning and analysis.

Projects

- **AI speech Emotion recognition**: Worked on emotion recognition system using voice, considering various models and parameters like SVC, Gradient booster, Random Forest Classifier and Recurrent Neural Network.
- **Real time Body Language Detection:** Performed image classification with real time data using Mediapipe, OpenCV & Tensorflow.

Languages and technologies

- Python, SQL, HTML5, CSS3, Django, Docker, AWS
- Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TensorFlow, Keras, PyTorch, NLTK, Cudf, Nilearn, paramiko.
- Data Visualization, Regression & Classification, Data Modeling and mining, Time Series, Natural Language Processing, Computer Vision, Flask, Neural Networks, Git & GitHub, Hypothesis testing, Predictive Modelling.
- Advance Excel, PowerPoint, Word, Anaconda, VS Code, MySQL, Tableau, PyCharm, Red Hat Linux.

Education & Certifications

- B. Tech: ECE (8.5/10), JIS College of Engineering, WBUT — Aug 2013 - July 2017
- Master's Program: **Artificial Intelligence Engineering** (Simplilearn Certified) — Jan 2019 – April 2020
- Internet of Things XEE100-017, **Stanford University** — Jan-21

Achievement and Awards

- Star of the Innovation – Awarded best developer in Intel product team for making the most efficient code — May 2021
- Hackathon 3.0 Winner Ericsson - Prediction of Anomalies from site based on Time Series analysis. — Nov 2019
- SQL Gold Badge, Python Gold Badge Hacker Rank, Arctic Code Vault Contributor at GitHub. — Nov 2020

Kaggle Challenges

- Prediction of real Tweets using NLP- in Top 1 % (Rank 9)
- M5 Time Series Forecasting – Accuracy – in Top 4%

Additional Activities

Blogging, Playing musical instruments, Photography, Travelling, mentorship