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ABHISHEK BHAGWAT

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EMPLOYMENT

Data Scientist, Intern — **Shopee** — **Jan 2020 – Present**

- Developed CPU level algorithm to detect the usage of emulators in Android devices.
- Developed ETL pipelines to deliver data to be ingested by models in real time (latency < 60ms)
- Involved in the research and analysis of data to identify patterns of fraudulent behavior amongst users.
- Contributed in the development of unsupervised models to cluster users with similar transactional behavior in the app.

Business Intelligence Data Analyst, Intern — **Shopee** — **May 2019 – Dec 2019**

- Developed analytics dashboards using a mix of Open Source tools & was involved in the automation of reports to deliver insights to ~ 200 brands.
- Handled over 3 different stakeholder teams internally.
- Contributed in the development of CatBoost (Categorical Boosting) sales forecasting ML model with over 50 M data points.

EDUCATION

Singapore — **Nanyang Technological University** — **July 2017 – Present**

- Bachelor of Engineering – Computer Science
- Minor in Entrepreneurship

TECHNICAL EXPERIENCE

Projects

- **Facial Recognition & Identification (2019):** Developed an attendance taking software which uses facial recognition and identification. The backend uses a deep CNN (Siamese Network) and is trained on the YouTube dataset. XGBoost is used in the final step to classify the faces respectively.
- **Credit Card Fraud Detection (2019):** Built a model to classify fraudulent transactions on a highly imbalanced dataset. It makes use of oversampling and undersampling methods such as SMOTE + Tomek.

Workshops

- **Google AI, Explore ML series – Speaker**
  - **Neural Networks:** Introduction to Neural networks and implementation using TensorFlow
  - **ML Problem Framing:** Framework to apply ML techniques on real life situations
  - **Image Captioning:** Implementation of an attention - based model to caption images in real time using TensorFlow.

ADDITIONAL EXPERIENCE AND AWARDS

- Chairperson, IEEE NTU Student Branch (2018 - 2020)
- Core team Member, Google Developer Student Club (2019-2020)
- NTU Science & Engineering Scholarship Recipient (2017 - 2021)
- National Cyber Olympiad Awardee (2016, 2017)

Languages and Technologies

- General purpose languages: Python, Java, C/C++
- Development: SQL, PrestoDB, SparkSQL, Hadoop, Hive, Kafka, HTML5, CSS3, Bootstrap, Git
- Data Science: pandas, Seaborn, sklearn, Apache Spark, PySpark, Dask, Spark MLlib, Sqoop, MLflow
- Miscellaneous: Unix, Bash, Airflow, Grafana