

KEKAYAN NANTHAKUMAR

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EDUCATION

University Of Kelaniya, Kelaniya, Sri Lanka

Feb 2016 – May 2020

Bachelor of Science (Hons) in Software Engineering

GPA: 3.89 / 4.0

Domains: Data Science and Engineering, Net-Centric Applications

EXPERIENCE

Pearson, Colombo, Sri Lanka

Mar 2021 – Present

Software Engineer at Applied Research & Development Team

- Formulated a pipeline to automatically tags Jira Tickets which 94% Accuracy using **Transformers** library and **BERT** based models in **Python** deployed on **AWS**.
- R&D on various Cloud architectures and Implementations.
- Researching on Time Series forecasting for user traffic prediction and anomaly detection on Pearson products ELB logs.

Insighture, Colombo, Sri Lanka

Aug 2020 – Mar 2021

Software Engineer

- Accomplished 20% more user base on Australian-based **Oho** Platform (implemented in a distributed manner using **Python** and **Nodejs** and the containers deployed in **AWS**) by incorporating NSW WWCC to the platform.
- Productized a fully automated HTML tag annotation in **Python** using **OpenCV** and **Detectron2** to detect heading and paragraph with a mAP of 54%, and annotate relevant *h1, p* tags in web documents, and aid web scrapping

Pearson, Colombo, Sri Lanka

Sept 2018 – Sept 2019

Intern Software Engineer at Applied Research & Development Team

- Research on similarity search and Semantic Search from embeddings and Wikipedia Redirects.
- Accomplished various POC for cloud migrations and ML Projects like Anomaly Detection, Image Classification.

PROJECTS

Oho (Skills: **Python**, **Node.js**, **Flask**, **Redis**, **Docker**, **RabbitMQ**)

Feb 2021

- Implemented the backend to facilitate a new state WWCC (NSW) in Australia to the system and open the pathway to add more states in the distributed system. The system achieved 20% more coverage in userbase and [live](#).

local hook (Skills: **Python**, **Flask**)

Feb 2021

- Created a CLI app to receive the webhooks in the terminal for local testing and development real-time as a [Python Package](#) with python and Flask. The project achieved 2000+ downloads in a short span in [PyPI](#).

ACADEMIC PROJECTS

Tagging Stackoverflow Questions (Skills: **Python**, **Tensorflow**, **Keras**, **Sci-Kit learn**, **Pandas**, **SQL**)

Mar 2020

- Implemented a BERT-based Multi-Label, Multi-Class Classification on StackOverFlow 10% data, and the 10 most frequent tags.

JKH Data Storm | Data Science Competition

Feb 2020

- Developed Linear, Lasso, Ridge regressions and Boosted and Bagged Tress models to predict customer churn in the supermarket chain (keels). Awarded 3rd in the Leader Board and 4th in overall.

AWARDS AND HONORS

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| • 4th out of 106 teams in Data Storm - Data Science Competition | 2020 |
| • 3rd out of 250+ participants in CodeZilla Hackathon by Mozilla Club | 2018 |
| • 2nd at HackaDev - Matara'17 (National Youth Software Competition) | 2017 |
| • Winner Best Photographer Ahasi Art Festival'16 at University of Kelaniya | 2016 |

TECHNICAL SKILLS

Languages:	Python (NumPy, Pandas, Scikit-learn, matplotlib), JavaScript (Node.js, React), SQL, Java, Go
Databases:	PostgreSQL, MySQL, MongoDB, DynamoDB
Frameworks and Tools:	Flask, FastAPI, Django, SpringBoot, Express, Docker, Git, AWS
Machine Learning:	Regression, Classification, Clustering, PCA, NLP, RNN, CNN, TransFormers, Pytorch, Keras
Certifications:	Machine Learning, Deep Learning (deeplearning.ai)

REFEREES

References will be made available on request