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 trafic predction and anomaly detection on Pearson products ELB logs.

Insighture, Colombo, Sri Lanka   **Aug 2020 – Mar 2021**
Software Engineer
- Accomplished 20% more user base on Austrilan based **Oho** Platform (implemented in distributed manner using **Python** and **Nodejs** and the containers deployed in **AWS)** by incoperating NSW WWCC to the platform the changes will add path way to incoperate South Austrlian WWCC as well .
- 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 Austraila to the system and open the path way to add more states in the distributed system. The system achived 20% more coverage in user based and live .

LocalHook (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. Project achived 2000+ downloads in 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 for 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 super market chain (keels). Awarded 3rd in the LeaderBoard and 4th in over all.

AWARDS AND HONORS

- **4th** out of 106 teams in Data Strom - 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