PREM KUMAR

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PROFILE

A highly self-driven person that is analytical and able to solve problem one way or another. A collaborative communicator who is continuously focused on building strong relationships and interactions. Applying for entry level Data Scientist position to dive deep into the data analytics environment to have a positive impact on the business model and growth.

EXPERIENCE

WISE AI
SEP 2020 > present

Machine Learning Engineer

- Building end to end eKYC solutions for fintech, security and banking clients using Deep Learning and Computer Vision (Facial Recognition)
- Daily use of Python, RESTful API, Pandas, Numpy, venv, conda
- Working on designing a complete Benchmarking Engine for multiple face recognition models with visualisations using Dash

Dyson
JAN 2019 > SEP 2020

Electronics Engineer (Robotics)

- Working on next-generation robotics product on the system-level definition of hardware

Monash University & Sime Darby
JAN 2018 > DEC 2018

Research Graduate (Machine Learning)

- Designed and developed an algorithm to perform multi-stage classification with CNN
- Processed over 5000+ images of training data and code the classification model to determine 8 classes of palm seed
- Extensive use of Pandas, Numpy and TensorFlow for data analysis and modelling
- Systemized codebase using Github and environment using Anaconda
- Improved image detection speed by 50% by using camera assisted seed grading

Dyson
NOV 2017 > JAN 2018

Engineering Intern (Software)

- Developed AC/DC Switching Test Rig using Raspberry Pi
- Learned core automation skills using Python to decrease redundant testing for products

EDUCATION

Monash University
OCT 2014 > DEC 2018

Bachelor's Degree in Electrical and Computer Systems Engineering (Honours)

Courses: Computer Vision, Computer Systems, Analog Systems, Control Systems

TECHNICAL SKILLS

Programming :

1+ years of coding experience in **Python, NumPy, Pandas, RESTful API, Flask**
1+ years of experience in Jupyter Notebook, Google Colab, Anaconda

Others :

Experience in Linux (Ubuntu), Windows, Mac OS (Unix), Microsoft Powerpoint, Excel, Word
Adept in problem-solving, data analysis, data visualization, predictive modelling, quantitative analysis

COURSES

Introduction to Data Science (Udemy), Machine Learning Hands-On (Udemy), Python for Scientific Stack, Recommendation Model using Matrix Factorization, Python for Data Science (Udemy), Introduction to Tableau for Data Scientist

PROJECTS

Recommendation Model using Deep Learning
- Analyzed contents to provide item recommendations to users using TensorFlow and performed EDA with Neural Network implementation

Determine Fraudulent transactions using Machine Learning
- Processed cashless transaction by performing EDA, handled imbalanced dataset and applied Support Vector Machines (SVM) for predictions

Credit Scoring using Machine Learning
- Analyzed huge dataset and perform data analysis to predict credit score using different algorithms (SVM, Random Forest, Gradient Boosting)

RESEARCH PUBLICATION

Palm Seed Classification using Deep Learning (*IEEE*), Gigabit-class Transmission using microLED (*OSA, Sprnger OWT*)