ZIYI WANG

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WORK EXPERIENCE

Cisco Systems, Inc. July 2021 - Present
Data Scientist *Hefei, China*

- Responsible for data collection, data analysis, data engineering, data mining and model building.
- Developed and fine-tuned classifiers leveraging Machine Learning models to satisfy business needs.
- Evaluated, optimised and explained results to provide business recommendations.
- Worked with engineering team on code deliverables.

Aldridge Railway Signals Aug 2020 - May 2021
Mechanical Engineer *Sydney, Australia*

- Designed products using CAD including Solidworks and Autocad.
- Consulted with engineering and manufacturing teammates to ensure feasible designs.

EDUCATION

Master of Data Science Feb 2020 - Jun 2021
University of Sydney

Bachelor of Mechanincal Engineering (Honours) Jun 2015 - Jun 2019
University of New South Wales

CISCO PROJECT EXPERIENCE

Application Performance Index (Apdex) Anomaly Detection

- Tracked satisfied, tolerating and frustrated users classified from different services provided by Cisco.
- Forecasted with time series models good at capturing seasonal effects, such as SARIMAX, Prophet, and Kats.
- Analysed and validated real-time outliers detected by models and summarised recall and precision.
- Integrated results and provided practicable solution to raise alerts while reducing review efforts for engineers.

Webex User Retention Prediction

- Cleaned data with large missing proportion and performed feature engineering.
- Analysed Webex data, such as total meeting count, to evaluate potential risk of losing each enterprise user.
- Developed Machine Learning models including but not limited to tree-based models and Deep Learning algorithms.
- Predicted retention of commercial users and monitored model performance after deployment.
- Compared predicted results with past data and optimised model in use if necessary.
- Significantly reduced site deactivation alerts wrongly raised to the Business Intelligence team to 78% of before.

Webex User Comment Classification

- Filtered and only kept comments in English left by Webex users after meeting.
- Utilised Machine Learning models to classify positive and negative comments.
- Categorised negative comments into different classes including video, audio, usability, etc., each with sub-classes.
- Compared, evaluated, improved and summarised results to provide suggestions on improvement of Webex.

SKILLS

- Language: Python and R
- Database: SQL, Oracle, Elasticsearch, MongoDB and Neo4j
- Tools: Pytorch, Keras, Tableau, yEd, Tulip and Gephis

王梓忆

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工作经历

思科系统 2021.07 - 至今

数据科学家 合肥

- 负责数据收集、数据分析、数据工程、数据挖掘和模型建立
- 建立和调控机器学习模型以满足商业需求
- 评估、优化和解释结果以提供商业建议
- 与工程团队合作保证代码转运

教育经历

数据科学硕士 2020.02 - 2021.06

悉尼大学

荣誉机械工程学士 2015.06 - 2019.06

新南威尔士大学

项目经历

应用性能指数（Apdex）离群值检测

- 跟踪思科系统所提供的不同服务里的满意的、适中的和失望的客户
- 利用可以有效抓住季节性的时间序列模型实施预测，比如 SARIMAX，Prophet 和 Kats
- 分析和验证被模型检测出的实时的离群值和总结查准度和查全度
- 合并结果并且发出警报

思科网迅用户保留预测

- 清理大量遗失数据以实施特征工和分析网讯数据，比如会议总量，评估失去商业用户的风险
- 开发机器学习模型包括但不仅限于基于树的模型和深度学习模型
- 预测商业用户的去留和跟踪模型被部署后的表现
- 用历史数据对比预测结果并且不断优化模型
- 减少了 78% 的错误发出的权限关闭警报

思科网讯用户留言分类

- 过滤和保留思科网讯用户的英语评论并利用机器学习模型区分正面和负面的评论
- 把消极评论分类，包括视频、音频、可用性等，且每类包含次分类
- 对比、评估、优化和总结结果以提供用于提高思科网讯的建议

技能

- 语言: Python R
- 数据库: SQL, Oracle, Elasticsearch, MongoDB and Neo4j
- 工具: Pytorch, Keras, Tableau, yEd, Tulip and Gephis