章玥辰

电话：13914749165 ♦ 籍贯： 江苏南京 ♦ 邮箱： joe.zhangyuechen@hotmail.com

身高：174cm ♦ 体重： 60kg ♦ 生日： 2000 年 3 月 28 日

能力简介

- 在工作与本科学习中掌握了极强的编程能力。熟练掌握的编程语言有 python, R, C/C++。
- 能熟练运用 Pandas，Scikit-Learn，nltk，SQL，Tableau，Power BI，Rest APIs 和 AWS 等工具并用于实践。
- 能灵活运用线性回归，逻辑回归，SVM，kNN，随机森林，朴素贝叶斯，k 平均，EM 等机器学习算法。
- 认真，细心，耐心，学习能力强，善交流。能妥善安排工作时间，与同事合力工事，亦可独立完成工作。
- 英文非常流利，有 8 个月在外国公司实习的经历。

教育背景

滑铁卢大学，滑铁卢，加拿大 2018 年 9 月 - 今

计算机科学学位，主修数据科学。三年级本科生，GPA 4.0，均分 91.5。

相关课程：Python，R，C/C++ 编程、高等数学、统计学、分类算法、线性回归运用、预测、数据分析等

相关项目：

自然语言处理 2021 年 2 月

- 运用 python，通过荷兰语的医生诊断，对患者症状进行分类。
- 运用 nltk，re 等库对荷兰语的医生诊断进行去词根，去虚拟词处理，并生成词袋。
- 将处理好的词袋用于拟合朴素贝叶斯模型。运用 cross validation 寻找模型中的 alpha。

泰坦尼克号乘客生存率预测 2019 年 10 月

- 编写 R，对泰坦尼克号乘客生还数据拟合逻辑回归模型，用以预测乘客的生存率。
- 分别运用梯度下降法与随机梯度下降法寻找逻辑回归模型中变量的系数。对结果进行比对。

工作经验

Region of Peel - Business Intelligence Analyst 2020 年 9 月-12 月

2 Copper Rd, Brampton, ON

- 运用 MS Flow， MS Access 和 SharePoint REST APIs 将本地部署的数据移动到云端。
- 运用 MS Flow， MS Power App 编写可以自动生成 PDF 记录，自动发送邮件的智能视察问卷。运用 Power BI 制作可视化报告来展示问卷回答的分布情况。
- 提出新颖的想法来管理小组内需要签署的合同。获得主管人的批准后，创建新的管理方式，并获得好评。
- 指导公司约 40 名管理人员关于如何使用智能视察问卷，沟通能力与表达能力得到提高。

Overbond - 数据科学实习生 2020 年 1 月-4 月

20 Richmond Street East, Toronto, ON

- 为公司预测债卷价格的运算程序设计误差度量方案，并运用 Tableau 和 Python 制作可视化报告用以展示误差，并使其每周一自动更新。
- 运用 SQL，Pandas 调取数据库中数据用于开发中的预测模型。与研究组组员合作，在 AWS 云服务器中测验开发中的预测模型，并记录误差。
- 与前端开发组组员合作，运用 JS 和 React 为公司网站增加新功能。

Joe (Yuechen) Zhang

62 Balsam Street, Waterloo, ON, CA ♦ y2799zha@uwaterloo.ca ♦ +1 226-978-5609

SUMMARY OF QUALIFICATIONS

♦ Outstanding programming skills with Python, R and C/C++, adapted from university coursework and prior experiences.

♦ Proficient use of Pandas, Scikit-Learn, Linux, SQL, R, Tableau, MS Power BI, MS Flow, REST APIs and AWS, developed from past internships.

♦ Knowledge in computer science, statistical inference, machine learning and finance gained from academic studies and past work experiences.

♦ Quality written and communication skills fostered from training employees at ROP on new Job Site Inspection procedures.

EDUCATION

Candidate for **Honours Computer Science**, University of Waterloo, Waterloo, ON Sept 2018 – Present

3B Data Science student with a Cumulative Average of **91.5**

Relevant courses: Python, R and C/C++ Programming, Object-Oriented Software Development, Applied Linear Model, Classification, Forecasting, Computational Inference, Data Structure, Sequential Programming and Financial Accounting.

Relevant Projects:

Eruptions-Waiting Clustering for the Old Faithful, University of Waterloo, ON Mar 2020

• Visualize the dataset by plotting the data on a scatter plot. Proposed a Gaussian Mixture Model based on the visualization.

• Utilized Expectation-Maximization Clustering Algorithm to find the means and standard deviations for the Gaussian Mixture Model.

Age-Survival For Male on Titanic, University of Waterloo, ON Oct 2019

• Programmed R to compare convergence efficiencies and behaviours between Gradient Descent and Stochastic Gradient Descent.

• Utilized Gradient Descent for a logistic regression model that predicts the probability of survival for passengers.

PROFESSIONAL EXPERIENCE

Region of Peel – **Business Intelligence Analyst** Sept – Dec 2020

2 Copper Rd, Brampton, ON

• Collaborated with team members to move on-premise data into the cloud using MS Access, MS Flow and SharePoint REST APIs.

• Programmed MS Power App for a digital form used for job site inspections. Utilized MS Flow to generate PDF summaries and send auto email confirmations. Developed a Power BI dashboard to reveal the distribution of the answers.

• Fostered problem-solving skills through proposing and building new management systems for the division's contracts.

• Enhanced communication skills developed by training over 40 employees on the new job site inspection procedure.

• Coded MS Flow to automatically track locate complaints and locate information requests.

Overbond – **Data Science Intern** Jan – April 2020

20 Richmond Street East, Toronto, ON

• Built precision metrics for the Overbond's bond pricing algorithm and created visual reports of the algorithm's precision errors using Python and Tableau.

• Utilized Google Cloud API to update and send weekly precision reports for further collaboration with the Data Science team for algorithm precision improvements.

• Assisted the research team to run developing models in AWS instances for speed. Developed solid skills in Pandas, R and Unix Commands.

• Collaborated with the software development team to implement web app features with JS and React.