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教育背景

2017 ₀₃ – 2019 ₀₃	悉尼大学 (USNews#34)	计算机 (数据分析与管理)	工学硕士
	主要课程: 机器学习, 深度学习, 云计算, 计算统计方法, 数据库管理, 多媒体检索, 项目管理, 数据分析与商业智能		AVG: 75 / 100
2011 ₀₉ – 2015 ₀₆	江南大学 (教育部直属 211)	信息与计算科学 (数学类)	理学学士
	主要课程: 数学分析, 高等代数, 概率论, 数学模型		AVG: 85 / 100

技能掌握

- 编程能力: Python, R, C++, SQL, LaTeX
- 方法: 机器学习, 神经网络: TensorFlow/Keras, 云计算: Hadoop, MapReduce, Spark
- 计算机软件: MS Office: Excel, PowerPoint, Word, SAP, Cognos
- 语言能力: 英语, 普通话

硕士经历

2018.08 – 至今	TED 演讲者表情分析	毕业设计项目
	• 正在进行中, 目的是实现分析一场 TED 中, 演讲者的感情倾向 (表情与语义), 目前研究属于物体识别、分割与面部表情分析, 处于初始阶段, 研究物体识别的算法如 DR-GAN、YOLO、SSD 等。	
2018.03 – 2018.06	Chars74K 图像数据集分类竞赛	深度学习项目
	• 使用 TensorFlow 底层 API 搭建 CNN 模型, 并加入多种优化算法 (BatchNormalization, Dropout);	
	• 研究了多种复杂的网络模型如 DenseNet, ResNet, VGG 等, 最终采用了 bagging 的融合模型去进行分类, 正确率达到了 90%, 并且获得了前五的排名。	
2018.03 – 2018.06	搭建神经网络框架	深度学习项目
	• 在 Python3 下使用面向对象编程 (OO) 不基于 API (TensorFlow, skikit-learn) 去搭建神经网络框架,	
	• 在框架下增加了多种激活函数, SGD, momentum, dropout, softmax and cross-entropy loss, mini-batch, batch normalization, weight normalization, weight decay 等等。	
2018.03 – 2018.06	Spark 框架下实现 kNN 图像分类	云计算项目
	• 用 Spark 和 Spark.sql 框架去搭建 kNN 模型, 并用其将 MNIST 数据集进行分类;	
	• 分析 I/O 消耗和运行时间, 在集群内, 最终的模型用时为 1 分钟内, shuffle 接近 0;	
	• 用 Spark.ml 框架去分析每个机器学习算法的优劣, 并得出结论。	
2017.08 – 2017.11	糖尿病胰岛蛋白分类	计算统计方法项目
	• 基于蛋白质磷酸酯数据, 通过动态规划, 在线性规划中, 求得所有已知分类的固定时间变量的 R 值差别最大的线性组合形式建立新属性, 对基因序列使用 PPSM 方式建立新属性, 实用工具为 Rstudio;	
	• 以随机部分样本方式优化 SVM 算法, 并以优化后的算法分类 Akt 和 mTOR 特性的蛋白质, 工具为 R。	
2017.03 – 2017.07	图像拼接及碎纸片复原	多媒体检索项目
	• 图像拼接中, 通过 Python3, 用 SIFT 算法得到图片特征点, kNN 方式去拼接, 最后用 RANSAC 法映射图片;	
	• 碎纸片复原中, 使用动态规划及皮尔逊相关系数实现复原, 工具为 Python3。	
2018.03 – 2018.06	新南威尔士州交通数据分析	悉尼大学 OLAP 数据分析竞赛
	• 基于 2011-2018 年新洲交通数据, 分析地区以及驾驶员的危险驾驶倾向性, 并得出相关的建议;	
	• 报告获得了第一名, 并获得 1000 澳元的奖励。	
2018.04 – 至今	参与多个 Kaggle 竞赛	Kaggle
	• 用多种方法对数据进行预处理 (除噪、填补缺省值、抓取特征点等), 并经常使用融合模型去进行数据的预测与分类, 其中竞赛项目最好的名次是 TOP10;	

工作经验

2016.02 – 2017.01	精硕科技 AdMaster	数据分析师
<ul style="list-style-type: none">监测每个数字广告（视频贴片，网页 Banner 等）项目的数据并分析流量提供观点与解决方案；对广告引流的网页进行监测代码添加及流量监测，并分析数据提供观点与解决方案；通过社交媒体（微博为主）数据分析舆情情况，并提供观点与解决方案；主要客户：资生堂中国，汉莎航空，可口可乐。		
2016.11 – 至今	领英 LinkedIn	江南大学主页管理员
<ul style="list-style-type: none">管理江南大学领英主页并定期与领英官方沟通。		
2014.06 – 2014.09	乐必扬 DigitasLBi (4A)	数据分析实习
<ul style="list-style-type: none">社交媒体数据进行舆情分析，客户为盖茨基金会和必胜客中国。		

学士经历

2012.09 – 2014.03	江南大学理学院学生会	主席
<ul style="list-style-type: none">成功完成常规任务，同时规划并进行了精简部门、工作标准化、资源开放化等院会改革；成功组织了两届“笃学江南---数学竞赛”，每届近 2000 人参加。		
2012.09 – 2013.09	江南大学科学技术协会	教育培训中心部长
<ul style="list-style-type: none">为学校学生组织了许多次的培训，包括 IT 培训、礼仪培训、求职培训等；成功邀请了韩寒一个团队、延参法师、刘同等人演讲。		
2012.10 – 2013.10	江苏省大学生创新创业项目---苏州市发展分析	数据分析负责人
<ul style="list-style-type: none">基于统计年鉴和调研数据，分析苏州城市化进程中的问题以及观点和未来展望；已经成功发表论文。		
2012.08 – 2013.08	全球创业周中国站	校园伙伴江苏站站长
<ul style="list-style-type: none">以校园代表身份（全国共 60 个大学代表）被组委会邀请参会，并在会上当选江苏站站长。		

奖项

- | | | |
|---|------------|-----------------------------|
| • | 2011.09 | 江南大学艺术团成员 |
| • | 2011.11 | 江南大学理学院冠军辩论队队长 |
| • | 2011.12.31 | 元旦钟声晚会演出者---手风琴 |
| • | 2012.12 | 首届黑苹果青年汇成员 |
| • | 2013.05 | 2012-2013 年江南大学优秀学生干部 |
| • | 2013.08 | 江南大学数学建模队成员 |
| • | 2013.10 | 2013 年暑期实践校级优胜奖项目团队负责人 |
| • | 2015.07 | 2015 年江南大学校级优秀毕业论文 |
| • | 2016.08 | 通过 AdMaster 第四届社交舆情数据分析培训认证 |
| • | 2016.08 | 通过 AdMaster 第四届广告监测数据分析培训认证 |
| • | 2018.07 | 澳大利亚新南威尔士州交通数据竞赛冠军 |

自我评价

- 悉尼大学（世界 top50）数据科学硕士应届生，本科江南大学（211 工程）数学系毕业。
- 擅长 Python、R、SQL 编程，
- 熟练掌握各种数据处理方法；
- 精通机器学习各类算法（sklearn）；
- 深度学习各类算法（TensorFlow）；
- 云计算（Spark、MapReduce、Hadoop）；
- 本科期间，为学生干部，多次参加校际活动，有较强的社交与组织能力。

Dongdong ZHANG

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Education

2017 – 2019	University of Sydney	Master of Information and Technology and Management (Data Science)	
		Main Courses: Machine Learning and Data Mining, Deep Learning, Computational Statistical Method, Cloud Computing, Database and Management	AVG: 75 / 100
2011 – 2015	Jiangnan University	Bachelor of Science (Mathematics: Information and Computing Science)	
		Main Courses: Mathematical Analysis, Probability Theory, Mathematical Modelling	AVG: 85 / 100

Advantage

- **Programming:** Python, R, C++, SQL, LaTeX
- **Methodology:** Any **Machine Learning** Method, Any **Neural Network** Method, Tensorflow, **Hadoop**, **MapReduce**, **Spark**
- **Software:** MS office: Excel, PowerPoint, Word, SAP, Cognos
- **Language:** English, Mandarin

Master Experience

2018.08 – now	Facial Expression Recognition	Graduation Project
	<ul style="list-style-type: none">• Just start, purpose is analyzing the TEDer facial expression in the TED, it belongs to object detection and emotion analysis in real-time, now research DR-GAN and YOLO, SSD algorithm.	
2018.03 – 2018.06	Chars74K dataset classification	Deep Learning Assignment
	<ul style="list-style-type: none">• Used tensorflow framework to create a CNN with Batch Normalization, dropout and others optimize function;• Tried many complex deep neural networks, like DenseNet, ResNet, VGG etc., finally used bagging model got 90% accuracy, and the rank is TOP5.	
2018.03 – 2018.06	Multiple Layer Perception Structure	Deep Learning Assignment
	<ul style="list-style-type: none">• No used API (tensorflow and ski-learn) to build the MLP framework on Python3 with OO programming;• Added multiple activation function, SGD, momentum, dropout, softmax and cross-entropy loss, mini-batch, batch normalization, weight normalization, weight decay etc.	
2018.03 – 2018.06	Images Classification with kNN by Spark	Cloud Computing Assignment
	<ul style="list-style-type: none">• Used spark and spark.sql framework to create a kNN algorithm then classify MNIST data in the Hadoop cluster;• Analyzed I/O cost and execution time, finally used less 1 min to classify 70,000 image data, and near 0 shuffle data;• Using spark.ml framework to analysis any machine learning method I/O cost and execution time.	
2017.08 – 2017.11	Classification for insulin	Computational Statistical Method Assignment
	<ul style="list-style-type: none">• Based on the insulin phosphoproteome data, created each insulin's fixed variables linear regression r-squared feature by dynamic programming, and created gene sequence by PPSM method, using RStudio;• Implemented SVM classifier by repeated random sampling unlabeled data to classify Akt or mTOR, using R.	
2017.03 – 2017.07	Application of Picture Stitching	Multimedia Retrieval Assignment
	<ul style="list-style-type: none">• Got feature point by SIFT, then matched by kNN, finally wrapped transformation by RANSAC, using Python3;• In shreds recovering, implemented dynamic programming to select the biggest sum of Pearson's r of each edge.	
2018.03 – 2018.06	NSW Traffic Data Analysis	USYD OLAP Analysis Competition
	<ul style="list-style-type: none">• Based on 2011-2018 traffic data of New South Wales Australia, analyzed the location and motorists risky driving tendency then provided some credible, justified, data-driven suggestions;• My report won 1st place and awarded 1000AUD prize.	
2018.04 – Now	Many Kaggle Projects	Kaggle
	<ul style="list-style-type: none">• Implementation of many preprocessing method for data, and frequently used ensemble learning to classify or predict data, and one project get TOP10.	

Working Experience

2016.02 – 2017.01	AdMaster	Data Analyst
<ul style="list-style-type: none">Tracking data of digital adverts, analysis the traffic to provide insights and solutions for each ad project;Setting code on the website and tracking, analysis the traffic to provide insights for each website;Getting data form social media web by crawling, then analysis it to provide insights and solution for each project;My main client: Shiseido China, Coca-Cola, Lufthansa Inc.		
2016.11 – Now	LinkedIn	Administrator of Jiangnan University
<ul style="list-style-type: none">Management for Jiangnan University LinkedIn Page.		
2014.06 – 2014.09	DigitasLBi (Publicis Group)	Data Analyst Intern
<ul style="list-style-type: none">Social media data analysis for Gates Foundation and Pizza hut Inc.		

Bachelor Experience

2012.09 – 2014.03	The Student Union of School of Science	President
<ul style="list-style-type: none">Had done every basic works successfully, and leaded reform movement about working normalization;Successfully organized Mathematical Competition (more than 2000 participated) twice.		
2012.09 – 2013.09	Science and Technology Association	Minister of Education center
<ul style="list-style-type: none">Organized many technology trainings for students, including IT, etiquette, career etc.;Successfully invited and organized some Chinese famous persons' presentation.		
2012.10 – 2013.10	Jiangsu Province Students' Project (City analysis for Suzhou)	Data Analyst Member
<ul style="list-style-type: none">Based on the statistical yearbook and survey data, provided some insights of Suzhou city innovation;Has published paper successfully.		
2012.08 – 2013.08	The Head of Global Entrepreneurship Week China	Campus Partners' Jiangsu Leader
<ul style="list-style-type: none">Was invited the convention (President Xi lettered the convention), and conversation with TOP 60 Chinese universities' representatives at Shanghai and was elected Campus Partner's Jiangsu Province Region Leader.		

Award

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|---|------------|---|
| • | 2011.09 | The member of Jiangnan University art troupe |
| • | 2011.11 | The captain of the debate champion team in School of Science in JNU |
| • | 2011.12.31 | Performer of Jiangnan University New Year's Day Party |
| • | 2012.12 | Member of first of Blackapple Youth Engagement |
| • | 2013.05 | Outstanding student leader of Student Union in 2012-2013 |
| • | 2013.08 | Mathematical modeling team member of Jiangnan University |
| • | 2013.10 | University summer project excellence award (Group Leader) |
| • | 2015.07 | Thesis Award for Outstanding Undergraduate Graduation Thesis (Jiangnan University) |
| • | 2016.08 | Awarded Certificate of 4 th round hard skill training-Track Participation |
| • | 2016.08 | Awarded Certificate of 4 th round hard skill training-Social Participation |
| • | 2018.07 | Champion of New South Wales State Traffic Data Analysis Competition |

Self-Introduction

- University of Sydney Master of Data Science , Jiangnan University Bachelor of Mathematics.
- Skilled at Python, R, SQL, C++,
- Experience at handling any data processing method,
- Knowledge at any machine learning and deep learning algorithm and Tensorflow,
- Good at Cloud Computing (Spark, MapReduce, Hadoop).