**Sahil Punchhi**

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Website: [*https://sahil-punchhi.github.io/*](https://sahil-punchhi.github.io/)

**PROFILE**

* Pursuing **Master of Science** in **Information Technology** at UNSW (majors: Data Science, AI)
* Strong **predictive modelling** and **machine learning** experience with 2 years at ICICI Bank, India
* Completed a 6-month program with **J. P. Morgan** in Global Markets Group
* **MITACS Globalink Scholar** (2015) at UNB, Canada for an academic exchange research project
* **Australian professional experience** with JB HiFi in commercial operations

**EDUCATION**

**Master of Science (Information Technology, majors: Data Science, AI)**

University of New South Wales, Sydney, Australia; **CGPA 82/100 Jul 2018 – May 2020**

**Master of Science (Economics)** and **Bachelor of Engineering (Mechanical)**

BITS Pilani, Pilani, India; **CGPA 8.97/10 Aug 2011 – May 2016**

**RELEVANT EXPERIENCE**

**Data Analyst, Manager (Band I) Jul 2016 – May 2018**

**ICICI, Business Intelligence Unit, Hyderabad, India**

Engaged with various business teams to provide analytical solutions and insights to complex problems. Delivered key projects in predictive modelling, machine learning and text mining.

* **Automatic Text Classification**: Classified employees into 4 categories to obtain behavioural characteristic trends and sentiments through document classification and sentiment analysis
* **Family Members Identification**: Identified accounts of family members of certain set of customers on the basis of address match using Jaccard distance, which were added in monitoring for frauds
* **Credit and Market Risk**: Developed pooling logic for retail asset portfolios with respect to two different dimensions of risk: Likelihood of default (Probability of Default i.e. PD) and Expected recovery (Loss Given Default i.e. LGD); Assessed factor sensitivity of portfolios using measures like modified duration in case of fixed income products and market value in case of equity

**Analyst Jan 2016 – Jun 2016**

**J.P. Morgan Services, Global Markets Group, Mumbai, India**

* Developed trading strategies for exotic options and derivatives on python-based platform “Athena”
* Analysed global markets for different trading instruments and their percentage share of profits

**ADDITIONAL EXPERIENCE**

**Teaching Assistant – Foundations of Computer Science Feb 2019 – Present**

**University of New South Wales, Sydney, Australia**

* First point of contact for questions pertaining to proofs of complex mathematical algorithms
* Assist senior faculty to evaluate and grade students through feedback on classroom performance

**Sales Representative Nov 2018 – Jan 2019**

**JB HiFi, Sydney, Australia**

* Set new records for sale and number of customers served; including value generated from upselling
* Provided after sales support, guided clients to improve user experience

**Mitacs Globalink Intern May 2015 – Aug 2015**

**University of New Brunswick, Fredericton, Canada**

* Worked under Dr. Victoria Chester on ‘Kinematic multi-segment foot models’ for gait analysis
* Cultural exchange program to get international exposure and work with students from other countries

**ACADEMIC PROJECTS**

* Designed a task scheduler for an embedded system using binomial heap-based priority queue
* Developed an agent to play the game of nine board Ultimate Tic-Tac-Toe using score heuristic
* Analysed various characteristics of a maze using recursivity, A\* and depth-first search

**AWARDS AND ACHIEVEMENTS**

* Awarded UNSW Future of Change Scholarship for postgraduate program in IT **Jul 2018**
* Awarded for the project ‘IFRS9 ECL Estimation’ in the category ‘Intelligence’ at ICICI **Oct 2017**
* Promoted in 1 year from ‘Management trainee’ to ‘Manager-I’ for exemplary performance **Jul 2017**
* Won a Case Study Competition in environmental law studies by NLIU awareness cell **Aug 2016**
* Awarded 2nd prize for the project ‘Collaborative consumption’ at BITS Pilani **Mar 2015**

**EXTRACURRICULAR ACTIVITIES**

**UNSW Hero Program Dec 2018 – Feb 2019**

* Pitched an innovative service improvement project and participated in various industry workshops

**Schooling Operations Head, National Service Scheme Aug 2012 – Mar 2018**

* Spear-headed operations at NSS Night School and inculcated community development approach

**Joint Coordinator, Creative Activities Club, fine arts society, BITS Pilani** **Aug 2013 – May 2015**

* Organized workshops and raised sponsorship for 4 events with 800 guests in cultural fest (OASIS)

**CERTIFICATIONS AND CONFERENCES**

**Machine Learning training by Math Logic Apr 2017**

* Focused on machine learning and deep learning models that can lead to 10%-30% performance improvement over traditional modelling paradigms in a variety of use cases

**Harvard US-India Initiative Conference Jan 2017**

* Addressed some of India’s most pressing social, economic and environmental issues in a student run organization that aims to create a dialogue between Indian and American youth

**Chartered Financial Analyst, Level-1 Dec 2016**

* Professional designation received from the CFA institute, formerly AIMR that measures the competence and integrity of financial analysts

**TECHNICAL SKILLS**

* Python, R, C, Java, Scala, SQL, SAS, VBA, Microsoft Office (Word, Excel, PowerPoint and Outlook)

**REFEREES**

Dr. Helen Paik, UNSW Kaunteya Guha, ICICI Abhinav Krishna, J. P. Morgan