

ISHA CHATURVEDI

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Objective: Seeking internship that will help me improve my skills and gain more exposure to the professional world, which I can use to tackle real-world issues and make this world a better place.

EDUCATION

New York University (NYU)

New York

Master of Science, Major: Data Informatics (Expected August 2018)

Hong Kong University of Science and Technology (HKUST)

Hong Kong

Bachelor of Science, Major: Environmental Technology, Minor: Information Technology (2016 Graduate)

- **Exchange School:** University of New South Wales (UNSW) (Fall 2014-15) Sydney
- Dean's List – top 9% (2013), Awarded University Entrance (2012), Continuing Students (2013) & Research on Award (2015) Scholarships, Received Grant from Luce Initiative on Asia Studies and the Environment (LIASE, 2015), International Student Ambassador

COURSE WORK

- Object Oriented Programming & Data Structures, Design & Analysis of Algorithms, Discrete Mathematics, Applied Data Science, Urban Spatial Analytics, Data Mining, Statistics, Human Computer Interaction, Fundamentals of Artificial Intelligence (**Hidden Markov Model (HMM) & Finite State Automata (FSA), Viterbi, Forward-Backward & Expectation Maximization Algorithm, Heuristic Functions, Context-Free Grammar (CFG)** etc.), Principles of Informatics, Finance, Micro & Macro Economics
- Implemented **K-means Clustering** algorithm in C++ & Performed Face Detection and Skin Detection using OpenCV in Python
- Developed a paint program using QT Programming in C++

SKILL SET

Android Application Development, C++, QT Programming, Java, Python, Pandas, Numpy, Matplotlib, CHICKEN Scheme (basic), OpenCV (in Python), LaTeX, UX Design, Wireframe Production, Usability Testing, User Research, ArcGIS, Weka (Data Mining Software), Linux

WORK EXPERIENCE & PROJECTS

Deutsche Telekom (DT) System and Media Laboratory (SyMLab)

Hong Kong

Research Assistant, Android Application Development on AR systems

July 2016 – June 2017

- Wrote research paper (First Author) for ACM Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT** - Aug 2017: paper on review) conference on research area: Improving UX for the smart glasses.
- Designed and developed android-based 'Navigation App' for Google Glass and MAD Gaze, for both indoor & outdoor environment.
- Designed and developed Indoor Navigation using WiFi signal strength information for the App development in the indoor environment.
- Designed Usability Tests based on NASA Task Load Index (NASA TLX) assessment, and conducted Usability Evaluation for the App on 40 users.
- Literature Reviewed UI of AR systems currently in the Market, Indoor Navigation and Human Vision Perception.
- Served as a Reviewer of the Conference Papers related to: Improved k-Anonymity Method for Privacy Preserving Collaborative Filtering, Content and Sentiment analysis of marijuana-related posts.

Undergraduate Project, HKUST

Hong Kong

Group Project, Big Data Mining (in Python)

February 2016 – May 2016

- Identified projects which are exciting to the business at DonorsChoose.org (KDD Cup 2014 project): used ensemble of 4 classifier models : **Logistic Regression, Gradient Boost, AdaBoost, & Random Forest**, to yield a best performing model for main features classification
- Used **tfidfVectorizer & sublinear tf scaling** for extracting bigram vectors and **Stochastic Gradient Classifier** for **text classification**.
- Predicted future malfunctioned components of ASUS notebooks from historical data (Pacific Asia KDD Cup 2014): developed new approach to generate a best fitting curve for prediction using **curve-fit** in sciPy
- Gave a presentation on 'Modelling the Dynamics of Online Social Networks' covering **Reciprocity, Temporality, Contextuality, Reinforced Poisson Process Model**.

Kowloon Motor Bus Company (KMB) & HKUST

Hong Kong

Final Year Group Project, Data Analysis of Indoor Air Quality of Buses

August 2015– May 2016

- Performed Data Cleaning and Data Processing, and applied Linear Regression model to study the correlation of indoor air quality (IAQ) of buses with outside real-time pollutant's level, under different traffic and weather conditions in closed and open ventilation scenarios.
- Analysed the relation between CO₂ levels inside the bus with the number of passengers inside the bus.

Undergraduate Project, UNSW

Sydney

Group Project, Human Computer Interaction

August – November 2014

- Designed a complete interface for a desktop application that facilitates collaboration between musicians, using the user-centred design (UCD) process.
- Collected user data through interviews and surveys, and used it to establish functional and non-functional requirements.
- Developed a low fidelity prototype and used data from several formal usability tests and heuristic evaluation to iterate the design.

ADDITIONAL INFORMATION

- HKUST Hackathon 2016 (largest university hackathon in Asia): Organized the event and assisted the judges during the judging process
 - **Global Youth Ambassador of AIESEC Hong Kong** (Project LEAD): Volunteered to teach English to village kids and held seminars for high-school and university students on developing **leadership & team-building skills**, for 6 weeks in Indonesia.
 - Languages: English (Full Professional Proficiency), Hindi(Native)
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