Amlaan Bhoi

abhoi.github.io abhoi
3@uic.edu | 630-362-5747 | linkedin: abhoi $817~\mathrm{S}$ Laflin St
 Chicago, IL

EDUCATION

University of Illinois at Chicago

Chicago, IL

Master of Science (MS) in Computer Science; GPA: 4.00/4.0

Expected May 2019

• Relevant Coursework: Advanced Machine Learning, Data Mining & Text Mining, Introduction to Data Science, Applied Artificial Intelligence, Virtual and Augmented Reality

Amity University

Noida, India

Bachelor of Technology (B.Tech) in Computer Science and Engineering; GPA: 3.31/4.0

July 2013 - May 2017

• Relevant Coursework: Pattern Recognition, Artificial Intelligence, Analysis & Design of Algorithms, Data Structures, Graph Theory, Operating Systems, Advanced Java Programming, Compiler Construction

EXPERIENCE

Reliance Communications

Navi Mumbai, India

Intern

May 2016 - July 2016

- Internet of Things: Created IoT case studies to reduce company infrastructure costs up to 40% as measured by finance department by developing 3 case studies with on-site device implementation design.
- Node Maintenance: Reduced node maintenance costs of network infrastructure by 25% by implementing Dijkstra's algorithm on vulnerable nodes.
- CSV Parser to SQLite: Wrote Python scripts to parse CSV data, create appropriate tables, and store data in SQLite databases.

OSSCube Solutions

Noida, India

Software Engineer Intern

May 2015 - July 2015

- Objective-C Data Structure Libraries: Created custom data modal libraries in Objective-C for future use and reduce overhead by 35%.
- \circ **Processmaker**: Created Automated Job Application Acceptance process in PHP for Human Resources to reduce paperwork by 50% by using Processmaker.
- o JUnit Test Cases: Wrote JUnit test cases to detect modular issues for prototype Employee Information System.

Projects

- Optical Character Recognition using Conditional Random Fields (Python, Numpy, Tensorflow): Achieved 84% letter-wise accuracy with CRF implementation (using dynamic programming) in $O(m|\mathcal{Y}|^2)$ complexity and validated with Tensorflow's CRF scores.
- Lifeguard.io (Python, Microsoft CNTK, OpenCV): Trained a 3DCNN object detection CNTK model to detect drowning people in swimming pool videos with 56% accuracy.
- Squeek (Objective-C, Xcode, Twitter Fabric SDK): Developed iOS Twitter client using REST and Fabric SDK to authenticate user, parse JSON data, and create and show appropriate and customized views to user.
- Otto Group Product Classification Challenge using Stacked Generalization (Scikit-Learn, XGBoost, Keras): Used GridSearchCV to tune XGBoost parameters on Google Cloud Platform (1.27 million fits) and used 8 models in stacked generalization architecture to achieve 0.43 multi-class log loss.
- ARYouThereYet (Swift, ARKit, Google Maps SDK): Created an AR application using Google Maps and Mapbox live data with dynamically generated AR location nodes and navigation view to destination.

ACTIVITIES & ACHIEVEMENTS

- Best Microsoft Hack HackHarvard 2017 (Cambridge, MA): 1st out of 220 teams
- Google Games: Campus Edition 2016 UIC (Chicago, IL): 16th out of 50 teams
- Best in Technical Innovation Amity University (Noida, India): 1st out of 800 students
- ACM Amity Student Chapter Amity University (Noida, India): Vice-chair (2015-2017)

TECHNICAL SKILLS

- Languages: Python (expert), Java (expert), C (expert), Swift (expert), SQL (expert), LATEX(expert)
- Frameworks: Tensorflow, Keras, OpenCV, Scikit-Learn, Caffe2, Microsoft CNTK, Google Cloud Platform