**NIRAJ THAPA**

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**Creative and people-oriented Computer Scientist with an extensive Project Management experience.**

**SKILLS**

• Python • Machine Learning • Deep Learning •Jaws •Dragon Naturally

Speaking •Kurzweil •Word/PDF Accessibility

**PROJECT**

**COMPAS RECIDIVISM RACIAL BIAS**: Calculated COMPAS scores for “Risk of Recidivism”

and “Risk of Violent Recidivism" and reproduced the results produced by ProPublica. Tested racial disparities in the score controlling for other factors and found COMPAS's overall predictive accuracy. This was included as a report for Final Project for Machine Learning Course.

**BIASES IN TOXIC COMMENT CLASSIFICATION**: Produced an overall increase in accuracy of approx. 5% on in the Train.csv file and 2% in Test.csv file. Firstly, used a Machine Learning Model to classify the negative comments. Then used the combination of VADER (Valence Aware Dictionary and sEntiment Reasoner) and the Machine Learning Model to find an increase in accuracy and reduced bias towards negative words. This was included as a report for Final Project for Bias in AI course.

**EXPERIENCE**

**Technology Access Assistant, Disability Support Services Jan 2018 – April 2019**

• Delivered e-text in accessible formats to accommodate students’ Alternative Text Material needs.

• Coordinated the scheduling of 19 freelance interpreters and other private vendors to meet students’ requests.

• Trained students on technologies like BookShare, Kurzweil, Dragon Naturally Speaking, JAWS, etc.

• Decreased office’s reliance on paper by digitizing students’ documents with technologies like VMWare Horizon and Sharepoint.

**Legal Intern, The Future of Privacy Forum Sep 2018 – Dec 2018**

• Edited The Privacy Expert’s Guide to AI and Machine Learning.

**Business Analyst/ Web Developer, National Youth Federation, Nepal Jan 2017 – July 2017**

• Partnered with clients and web developers to develop product requirements and strategies.

• Facilitated Website demo meetings with clients.

• Negotiated contracts favored by both the parties.

• Designed websites in CMS like WordPress and Joomla for NGOs and social organizations.

**Web Developer, GoGazzab Pvt. Ltd. Jan 2016 – Dec 2016**

• Wrote programs according to specifications and requirements.

• Headed weekly report meetings and communication with the marketing team.

• Established compatibility with third party software products by developing program for modification and integration.

**Graduate Engineer Trainee, GoGazzab Pvt. Ltd. Nov 2015 – Jan 2016**

• Revamped GoGazzab website by building different modules, developed with MVC structure and coded in PHP with a team.

• Explored how to develop and maintain web based and mobile based applications in magento platform.

**EDUCATION**

**Master of Science in Computer Science, The George Washington University May 2019**

***Selected Coursework:*** Machine Learning CSCI 6364-80, Introduction to Neural Networks   
CSCI 6907-11, Intro to Big Data & Analytics CSCI 6444-80, Bias in AI CSCI 6907-83

**Bachelor of Technology in Civil Engineering, National Institute of Technology, Warangal July 2015**