TIMOTHY ROZARIO

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PROFILE

Highly motivated and result oriented data scientist with a passion for building scalable learning systems that address ambiguous and undefined real-world problems

Successfully led cross-functional teams in analyzing large data sets and uncovering key actionable insights, identifying trends and measuring performance

Frequent speaker at top conferences on data science

EDUCATION

University of Texas at Dallas - Dallas, USA

Doctor of Philosophy in Computer Science: GPA 3.86 / 4.0

2010 - 2015

- Led 3-member team investigating novel techniques to optimize Radiation Therapy
- Published two high impact medical physics journal papers
- · Presented at top international conferences

Anna University - Chennai, India

Bachelor of Technology in Information Technology: GPA 3.80 / 4.0

2002 - 2006

- Led 3-member team to 1st prize in the final semester project for creativity and originality using virtual reality 1st among 300
- Captained table tennis and quiz teams to regionals top 3% in 270 schools

TECHNICAL SKILLS

Machine Learning: classification, regression, clustering, generative models like GANs

Statistical Methods: time series, regression models, hypothesis testing, principal component analysis and dimensionality reduction **Software and Programming Languages:** Python – packages such as numpy, scipy, pandas, scikit-learn, keras, tensorflow, JAVA, C++, C, JAVA Script, Matlab, SQL, Linux, LaTeX

Selected Coursework: Data Structures, Algorithms, Probability and Statistics, Statistics for Data Science, Machine Learning and Deep Learning in Python

RELEVANT WORK EXPERIENCE

Software Programmer: Siemens Automation Division Partner Frontal Software

2007 - 2009

- Successfully designed and implemented SMART FOUNDARY app for top 5 Asian foundry that reduced cost by 13%
- Led 3-member team designing and implementing Intelligent event reporting system for Global 500 pharma that increased productions by 15%

Post-Doctoral Fellow - Data Scientist: UT Southwestern Medical Center, Radiation Oncology

2015 - Present

- Designed and built production-ready deep learning model for tumor detection that halved the gold standard error margin
- Built and deployed clinical tool with deep learning that automates tumor-site organ detection accurately while saving 50% time
- Created and heading inter-institutional big data cleaning initiative using machine learning for improving clinical best practices

Research Intern: UT Southwestern Medical Center, Radiation Oncology

Summer 2015

Successfully designed and built anomaly detection model that predicted irregularities in tumor trajectories using recurrent nets

Research Assistant: University of Texas at Dallas, Erik Jonsson School of Computer Science

2010 - 201

- Designed and built novel marker-less tumor tracking models in lung cancer that reduced gold standard error from 3mm to 1.6mm
- Constructed and implemented algorithm for automatic collision detection for synchronized fleet of inflight drones
- President of Grads of Computer Science: Introduced industry pertinent courses; partnered with tech giants AT&T, Amazon to
 provide collaborative opportunities; organized summer boot camps for middle schoolers to provide a gateway to programming

Teaching Assistant: University of Texas at Dallas, Erik Jonsson School of Computer Science

2011 - 2015

Taught and assisted data-structure, algorithm and programming courses. Received student evaluations in the 95th percentile

SELECTED AWARDS AND RECOGNITION

National Science Foundation NSF: Received outstanding researcher scholarship in 2014 and 2015 – 15 recipients nationally Cancer Prevention Research Institute of Texas CPRIT: Received travel scholarships and a grant for projects - 2015 to present BIOWEBSPIN: #1 Academic - Industry Partnering Network: Award for high-impact customer centered product development

PERSONAL

Community Compassion International – promotion and child sponsor; LIFT – Volunteer for design of study material **Interests** Guitarist, Vocalist for Irish Rock Band; Song writer; Market Analyst and Manchester United fan