Alireza Manashty

Lead Data Scientist
Canada

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EDUCATION

Ph.D. in Computer Science; University of New Brunswick — 2014 – Dec. 2018 — *NB, Canada*
Predictive Analytics in Health Monitoring

M.Sc. in Computer Engineering (AI); Shahrood University of Technology — 2010 – 2012
Sign Language Recognition using RGB-D cameras; GPA 3.7/4 (Rank 1/20)

B.Sc. in Software Engineering; Razi University — 2006 – 2010
Smart House Remote Monitoring System; GPA 3.7/4 (Rank 3/61)

EXPERIENCE

Data Scientist — June 2018 - Present
Department of Health, Government of New Brunswick — *Fredericton, Canada*

- **Tensorflow**: TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.

Lead Data Scientist — June 2018 - Present
IPSNP Computing Inc. — *Saint John, Canada*

- **Notifications**: Service for sending email, push and in-app notifications. Involved in features such as delivery time optimization, tracking, queuing and A/B testing. Built an internal app to run batch campaigns for marketing etc.
- **Course Dashboards**: Instructor dashboards and learner surveying tools, which helped instructors run their class better by providing data on Assignments and Learner Activity.

Data Scientist — Feb 2018 - June 2018
CGS (Computer Generated Solutions) Canada — *Saint John, Canada*

- **Portfolio Management**: Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine used for simulating and backtesting strategies.
- **QuantDesk**: Python backend for a web application used by hedge fund managers for portfolio management.

University Instructor, Research, and Teaching Assistant — Jan 2014 - June 2018
University of New Brunswick — *New Brunswick, Canada*

- **Primary Lecturer and Lab Instructor**: 16 Credit, 8 Lab hours & +150 students, Database Management Systems II — Operating Systems I — Computer Networking — Systems Software Development — C++ for Java Programmers—Honour's Project
- **Graduate Research Assistant/Teaching Assistant**: Health Preditcive Analytics @ Fall Lab
- **Diploma of University Teaching**: University of New Brunswick, Fall 2015

PROJECTS

- **QuantSoftware Toolkit**: Open source python library for financial data analysis and machine learning for finance.
- **Github Visualization**: Data Visualization of Git Log data using D3 to analyze project trends over time.
- **Recommendation System**: Music and Movie recommender systems using collaborative filtering on public datasets.
- **Mac Setup**: Book that gives step by step instructions on setting up developer environment on Mac OS.