

Nishant Uniyal

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EDUCATION

UNIVERSITY OF BRITISH COLUMBIA

MASc ELECTRICAL & COMPUTER ENGINEERING

Aug 2014 | Vancouver, BC

Cum. GPA: 4.30 / 4.33

Emphasis in Machine Learning, Medical Image Processing, and Signal Processing

MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY

BSc IN ELECTRICAL & COMPUTER ENGINEERING

May 2012 | Rolla, MO

Cum. GPA: 3.67 / 4.0

Graduated summa cum laude

TECHNICAL SKILLS

PROGRAMMING

Experienced:

Python

Intermediate:

SQL • C++ • C

Beginner:

R • HTML • Ruby • Bash • MATLAB

LIBRARIES AND PACKAGES

Scikit-learn • Keras • Tensorflow • PyTorch

• Hyperopt • NumPy • Scipy • Pandas

• Statsmodels • NLTK • Spacy • Plotly

• Superset • Mlflow • Pytest • OpenCV

• Flask

TOOLS

Proficient:

Docker • Jupyter • Airflow • Git • Terminal

• VS Code • Sublime Text • PyCharm

• DBEaver • \LaTeX

Learning:

Deep Learning • Data Science

Infrastructure • Kubernetes • AWS

OPERATING SYSTEMS

MacOS • Linux • Windows

LINKS

Website:// [Nishant Uniyal](#)

Github:// [nishantuniyal](#)

LinkedIn:// [nishantuniyal](#)

Google Scholar:// [Nishant Uniyal](#)

EXPERIENCE

BOEING VANCOUVER | DATA SCIENTIST

Nov 2017 – Present | Vancouver, BC

- Developed NLP methods for text classification using classical machine learning and deep-learning techniques.
- Developed a web-app for automated KPI report generation, data visualization, and data upload, which significantly streamlined the analytics workflow.
- Built a fully automated data engineering pipeline and performed DevOps related work like setting up the CI/CD pipeline and deploying the infrastructure using Docker.

CLARIUS MOBILE HEALTH | RESEARCH SCIENTIST

May 2015 – Nov 2017 | Burnaby, BC

- Invented novel ultrasound imaging methods and developed imaging algorithms (listed inventor on 3 issued and another 3 filed patents).
- Developed various automated algorithms from inception to deployment, which are currently offered to customers as premium product features.

NZ TECHNOLOGIES | SOFTWARE DESIGN ENGINEER

Sep 2014 – May 2015 | Vancouver, BC

- Improved the gesture recognition and control system from 18 FPS to 30 FPS by integrating a new 3D infrared camera.
- Developed a real-time algorithm for perspective image correction using a projector-camera system.

UNIVERSITY OF BRITISH COLUMBIA | GRADUATE RESEARCH ASSISTANT

Sep 2012 – Aug 2014 | Vancouver, BC

- Proposed and developed an innovative semi-supervised machine learning technique. (Best paper award)
- Developed a machine learning, signal processing, and image processing package which successfully detected breast and prostate cancer using ultrasound data.

PATENTS

- Uniyal, N et al. "Systems and Methods for Identifying an Imaged Needle in an Ultrasound Image." 16 Oct. 2018.
- Uniyal, N et al. "Methods and apparatus for performing multiple modes of ultrasound imaging using a single ultrasound transducer." 29 Jan. 2019.
- Uniyal, N et al. "Ultrasound systems and methods for optimizing multiple imaging parameters using a single user interface control." 4 Dec. 2018.

PUBLICATIONS

- Uniyal, N et al. "Ultrasound RF time series for classification of breast lesions." Medical Imaging, IEEE Transactions on, vol.PP, no.99, pp.1,1.
- Uniyal, N et al. "Ultrasound-based prediction of prostate cancer in MRI-guided biopsy." MICCAI CLIP, 2014. 142-150. [Best paper award, Presentation]

ACTIVITIES

- Secretary of ECE Graduate Student Association (ECEGSA) 2013-2014.
- Winner of the Three Minute Thesis (3MT) Department Heat, 2014 UBC.