Gaurav K. Patil

[redacted]

Country of Citizenship: India
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Research Interests

Machine Learning, Deep learning, Computer Vision, Robotics, Data Science, HCI, Visualization, NLP

Academics & Work Experience

Suyash Developers, Mumbai, India
Family owned construction business
Partner
June 2015 - Present

Columbia University, Fu-Foundation School of Engineering & Applied Science, NYC, USA
Master of Science - Civil Engineering and Engineering Mechanics
Sept 2014 - May 2015

University of Mumbai, Rizvi College of Engineering, Mumbai, India
Bachelor of Engineering - Civil Engineering
July 2010 - July 2014

Personal Github Repositories

(Hyperlinks)
Image-Classifier-Models-using-Tensorflow
Sentence-Completion-NLP-using-TensorFlow
Art-Style-Transfer-using-TensorFlow

Technical Skills

Programming languages: Python, Java, MATLAB, Scala, C++, JavaScript
ML Frameworks: TensorFlow, Keras
Mathematical Strengths: Linear Algebra, Calculus, Probability Theory, Statistics

Related Coursework

Deep Learning - (Coursera) - (Specialization | 5 courses) - (deeplearning.ai)

- Neural Networks and Deep Learning
- Improving Deep Neural Networks - Hyperparameter tuning, Regularization, Optimization
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models

TensorFlow in Practice - (Coursera) - (Specialization | 4 courses) - (deeplearning.ai)

- Introduction to TensorFlow for AI, ML and DL
- Convolutional Neural Networks in TensorFlow
- Natural Language Processing in TensorFlow
- Sequences, Time Series and Prediction

Machine Learning - (Coursera) - (Stanford University)

Natural Language Processing - (Coursera) - (Specialization | 4 courses) - (deeplearning.ai)

- Natural Language Processing with Classification and Vector Spaces
- Natural Language Processing with Probabilistic Models
- Natural Language Processing with Sequence Models
- Natural Language Processing with Attention Models

Other Computer Science related courses - (Coursera)

- Object Oriented Programming in Java (Specialization | 4 courses) - (Duke University & UCSD)
- Functional Programming in Scala (Specialization | 4 courses) - (EPFL)
- Algorithms Part 1 - (Princeton University)
- Algorithms Part 2 - (Princeton University)
- Scripting in Python - (Rice University)

Master of Science Program - (Columbia University)

- Uncertainty Risk in Civil Infra Systems - (Columbia University)
- Finite Element Analysis - (Columbia University)
- Elastic/Plastic Analysis in Structures - (Columbia University)
- Advanced Mechanics - (Columbia University)

Academic Projects

Stress Analysis of a Gravity Dam on Soil Foundation Using Finite Element Method – (CU Fall 2014)
Finite Element Analysis of concrete beam – (CU Fall 2014)
Design of Long Span Bridge – (CU Fall 2014)
Design of Residential Building for High Energy Performance – (CU Spring 2015)
Design of Building under Gravity, Wind and Seismic loads – (CU Fall 2015)

Other Info

GRE Test Scores:
Quantitative Reasoning: 166 / 170
Verbal Reasoning: 153 / 170
Analytical Writing: 4.0 / 6.0

Languages: English, Hindi, Marathi