VINEET VINAYAK PASUPULETY

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA
MS, Computational Science & Engg, College of Computing
Computer Vision, CSE Algorithms Deep Learning, Natural Language Processing, Artificial Intelligence
Expected Dec 2018 | Atlanta, GA
CGPA: N/A

NATIONAL INSTITUTE OF TECHNOLOGY, TRICHY
B.Tech, Electronics & Communication Engineering
Pattern Recognition, Image Processing, Data Structures & Algorithms, Control Theory, Statistical Theory of Comm., Digital Signal Processing
May 2017 | Trichy, India
CGPA: 8.9/10.0

DELHI PUBLIC SCHOOL, BANGALORE - SOUTH
May 2013 | Bangalore, India
Class XII (CBSE): 97%
Class X (CBSE): 10.0/10.0

SKILLS

Over 1000 lines:
C++ • Python • MATLAB
Familiar:
Mathematica • AnyLogic • R • GAMS OSL • LaTex • MySQL • Java • Node.js • Android

PUBLICATIONS

- Pasupulety, V; Goh, M, Air Freight Hub Competition with Airport Demand Enhancing Services, ISL 2016, Taiwan. **Nominated for Best Paper (8.8/10)**. Under review IJLM
- Pasupulety, V; Goh, M, The Value Alliance: Is It Worth It?, ICAED 2016, Thailand

AWARDS

- **Ventura 16** (Int'l BPlan Fest): Ideated startup to connect waste & recycling firms. Guided by Chennai Angels, GreenBuild Products. Awarded **Best Student Idea** by Sequoia Capital VCs from 368 entries over 3 rounds.
- **Pragyan16** (NITT Int'l Techno-Management Fest): Finalist for developing E-Signature site in Laravel PHP/MySQL for secure, timely document attestation.

EXPERIENCE

ADOBE | Research Intern, Big Data Experience Labs
May 2017 – August 2017 | Dr. Niyati Chhaya | Bangalore, India
Designed deep architectures to capture edits expertly Photoshopped onto natural images using landmarks detection
Performed Dependency Parsing/Vector Space Analysis/Topic Modelling to map tool-effect pairs into meaningful tutorial steps for novices
Developed with TensorFlow/NLTK/OpenCV and D3 for plugin
Awarded the **"Most Creative Project"** amongst 23 teams

COMPSIG | Researcher, Pattern Recog. & Comp. Intel. Labs
Jan 2017 – May 2017 | Dr. E.S. Gopi | Trichy, India
Developed sentiment mining algorithms to rate online product reviews on basis of polarity and subjectivity/objectivity
Performed concise efficient visualization of classified reviews
Developed with Numpy/Matplotlib/NLTK/Django and D3

JET AIRWAYS | Software Intern, Supply Chain
Nov 2016 – Jan 2017 | Mr. Ishan Dhar | Mumbai, India
Performing Data Mining/Predictive Analytics for MRO activities
Reconfigured modules for automated planning & inventory management protocols for Jet's Boeing 737-700/800/900 fleet

TLI – AP | AI Research Intern, NUS Business School
Jan 2016 – July 2016 | Dr. Mark Goh | Kent Ridge, Singapore
Ideated air freight route games to model multiagent strategy equilibrium
Designed SD simulations to mine financial strategies for alliance stability
Published 2 international conference papers; Audited MBA courses (Global Ops Strategy, Project Mgmt); Only Indian awarded IRI Fellowship 2016

CiSTUP | Research Intern, Indian Institute of Science
September 2015 – February 2016 | Dr. Ashish Verma | Bangalore, India
Solved computational social choice problems to develop optimal strategies for airlines to compete against high speed rail.
Simulated optimal quantities/frequencies over travel times, willingness-to-pay, passenger types to mine demand insights. Paper under review in TRB

PROJECTS

- **Image Denoising Game Design and Algorithms** November 2016
  Designed game theoretic heuristic for finding optimal quality neighbours to improve denoised pixel estimates and reduce intensity correlation for optimal tradeoff in metrics
- **Stock Market Stability Analytics** October 2016
  Used Pandas & NumPy to scrap stocks of 5 Fortune 500 companies; Measured stability indices from capital returns since IPO & market sentiment of stocks from Tweetchup.com
- **ANNs & Nature Based Optimizations for Microwave Filter Design** March 2016
  Designed optimal Microwave filters, using Artificial Neural Networks & Nature Based Optimizations like PSO/ACO/SNO etc. with varying specifications.
- **Estimation-based AWGN Filtering for corrupted Digital files** September 2015
  Used Bayes-Minimax Detection to estimate thresholds for high order Weiner Filters
- **Revenue management system with dynamic pricing** May 2015
  Learnt demand using dynamic programming, Kalman Filters for oligopolistic markets
- **Online Adaptive Trajectory Optimization for Journey Restricted UAVs** June 2015
  Designed UAV guidance laws in windy conditions using Monte Carlo Simulations; performed dynamic optimization of design matrices for efficient tracking
- **Chess/Battleship/Searchable Calendar** September 2013
  Used Reinforcement Learning to develop intelligent applications in C++ with 72% strategy prediction accuracy for machine operations. TA for CS101 practicals (2 months).

POSITIONS OF RESPONSIBILITY

Internship Representative (ECE 2013-17), interface between company HR & students
Member, DataByte, NITT Data Science Society, guiding juniors/handling company projects
Member, PROBE 2016 Content Team, NITT ECE All-India Symposium, 1200 participants