

VINEET AGARWAL

vineetagarwal208@gmail.com

EDUCATION

University of Illinois at Urbana Champaign, IL

Aug 2013 – Jan 2015

Master of Science

GPA: 3.93 / 4.00

Courses: Data Analysis, Machine Learning, Objected Oriented Programming & Design, Parallel Programming

Indian Institute of Technology Delhi (IIT Delhi), New Delhi, India

Aug 2009 – May 2013

Bachelor of Technology

GPA: 8.53 / 10.00

SKILLS

Languages: C++, Python, R, SQL,

Libraries: Spark, MPI, OpenCV, Scikit-Learn, Hadoop

Tools: Docker, Singularity, Amazon Web Services, Cloud computing

WORK EXPERIENCE

Oracle Inc

4th Jan 2016 – Present

Job Responsibilities:

- Design, develop and programs, methods and systems to cleanse, consolidate and organize unstructured ‘big’ data
- Implement statistical and machine learning methods to analyze big data
- Communicate insights and findings from analysis and experiments to product, service and business managers
- Generate recommendations for large online platforms and advertisers on how to improve their advertising efficacy

Major Projects:

Platform for analysis of very large scale audience data

- Built robust Spark data pipelines for analyzing large scale audience data consisting of trillions of data points using
- Programmed efficient analysis algorithms for evaluating overlaps between multiple audiences
- Reduced run time of overlap algorithm by 95%, thereby saving money on infrastructure costs

Optimization Algorithm for Audience Selection

- Programmed a scalable method to select optimal audiences for a desired advertising target using statistics instead of human intuition
- Automated a process to generate reports from optimization algorithm for clients with minimum human involvement
- Reports were used by client analytics teams to engage with multiple advertising firms

Normative Database for Advertising performance

- Developed data pipelines for extracting, transforming and loading performance data on advertising campaigns
- Automated scripts to perform quality control and data integrity checks
- Data and reports are used by client analytics teams for engaging with advertisers on a regular basis

Big Data Analyst at Belcan Engineering

18th May 2015 – 18th Dec 2015

Job Responsibilities:

- Cleaning and organizing large structured and unstructured datasets
- Develop programs and processes for generating valuable insights from data
- Implement scalable and automated processes for data collection and insights generation

Major Projects

3D reconstruction of objects from images

- Developed a framework for 3D reconstruction using OpenMVG to detect wear in large machine parts
- Demonstrated excellent match between 3D model and actual object for spatial measurements
- Currently creating a web service for 3D reconstruction and measuring wear of machine parts