SUBHASH TALLURI

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SUMMARY

Trained mechanical engineer. Experienced Aerospace engineer. Passionate data scientist. IoT Enthusiast

SKILLS

Data Science - Python, R, SQL, Full stack development, Tableau, Hadoop Ecosystem
Engineering - Ansys, LS-Dyna, Hypermesh, Abacus, Catia, Solid works, PTC Creo

RELEVANT EXPERIENCE

Cyient Insights
Data Scientist *Chandler, AZ | Oct 2017 - Present*

- Experienced in providing predictive analytics solutions for the aerospace industry
- Expertise in engine health monitoring, aircraft systems health monitoring, advanced engine diagnostics and prognostics
- Adept at data wrangling, machine learning and data visualization
- Led a team of remote data scientists to develop and validate predictive models and feature engineering scripts.

Pratt & Whitney Canada
Analyst, Material/Structural *Mississauga, Ontario | Dec 2010 - Sept 2017*

- Experienced in gas turbine engine development from concept design, first engine test, certification and production phase
- Specialist in design, stress analysis, thermal analysis, dynamic analysis, impact analysis, fracture mechanics, fatigue life evaluation, MRB activities, structural testing and root cause investigation
- Expert in structural & dynamic analysis for extreme loading conditions such as fan blade off, bird ingestion, rotor containment, windmill & maneuver conditions
- Supported field hardware during engine overhauls, inspection & maintenance intervals with quick turnaround times. Reviewed deviation in hardware against engineering definition and assessed their impact on durability and strength
- Expertise in full engine & component rig tests to support internal engine development, analytical methods validation, research and to address production or field issues.
- Experienced in writing certification reports for regulating authorities such as Transport Canada, FAA & EASA

Software Techniques Inc.
FEA Analyst / Programmer *Mississauga, Ontario | May 2010 - Nov 2010*

- Worked with a team to develop a standalone MATLAB application for a leading firm in the oil & gas industry
- Modeled oil well drill string vibrations using finite element methods, Lagrange dynamics and rock mechanics from scratch

EDUCATION

University Degrees	University	Year
MS, Computer Science	University of Illinois Urbana Champaign	2018
MS, Aerospace Science & Engineering	University of Toronto	2010
BS, Mechanical Engineering	Jawaharlal Nehru Technological University	2008

Academic Experience, Data Science *Mississauga, Ontario | Aug 2016 - April 2018*

- *Predicting Borrower Risk, Lending Club Data* – Developed a novel method of predicting borrower risk through augmented data using logistic regression & Naïve Bayes. Model proved to be better than Lending club's base model accuracy.
- *Product Recommendation, Instacart Data* – Developed a dynamic web application for Instacart data using PostgreSQL db, Python middleware and JavaScript-Bootstrap front end. Used Py-spark and k-means clustering for product recommendations
- *Applied Machine Learning Projects* – Developed Naïve Bayes classifier and SVM from scratch. Used PCA, Boltzmann Machines, Expectation Maximization and Convolutional neural networks for image classification.

Academic Experience, Engineering *Toronto, Ontario | Aug 2008 - April 2010*

- *Intern, Integrity Testing Laboratory Inc* – Laboratory analysis of materials exposed to space environment
- *Structures Lead, Space Flight Lab, Univ. of Toronto* – Subsystem design of solar sail satellite
- *Research Project, Univ. of Toronto* – Engine-out autopilot design of Boeing 747
- *Research Project, Univ of Toronto* – Analysis of propulsive characteristics of ram-rocket under design