SUBHASH TALLURI

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SUMMARY

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

SKILLS

Data Science	- Python, R, SQL, Tableau, Hadoop Ecosystem, Git, Full stack development
Engineering	- Ansys, LS-Dyna, Hypermesh, Catia, SAP, Enovia
Domain	- Manufacturing, Aerospace/Aviation, Oil & Gas, Industrial

RELEVANT EXPERIENCE

Cyient Inc.

Data Scientist — *Chandler, Arizona, USA | Oct 2017 - Present*

- Experienced in providing predictive analytics solutions for manufacturing, aerospace industry, oil & gas and industrial IoT
- Expertise in systems health monitoring, advanced diagnostics and predictive maintenance
- Expertise in deriving business intelligence, translating insights to actions that directly impact ROI
- Knowledgeable in SDLC, full stack development and use of big data tools on cloud platforms
- Adept at data wrangling, machine learning, data visualization, deep learning, business intelligence and optimization
- 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, Canada | Dec 2010 - Sept 2017*

- Experienced in gas turbine engine development from concept design, first engine test, certification and production phase
- Expert in manufacturing technology, processes and providing repair/rework solutions for non-conformance
- 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, Canada | May 2010 - Nov 2010*

- Worked with a team to develop a standalone MATLAB application for **Weatherford Corporation**
- Modeled oil well drill string vibrations using finite element methods, Lagrange dynamics and rock mechanics from scratch

University Degree	University	Year
MS, Computer Science	University of Illinois at Urbana Champaign	2016 - 2018
M.Eng., Aerospace Engineering	University of Toronto	2008 - 2010
B.Tech., Mechanical Engineering	J.N.T. University	2004 - 2008

Academic Experience, Data Science — *Mississauga, Ontario | Aug 2016 - July 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 - Aug 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