

AKSHAT SRIVASTAVA

Delhi (NCR)/ India | +91 (0)9958945031 | akshatdotsrivastava@gmail.com

INTRODUCTORY PROFILE

Analytically minded student with awareness encompassing Computational Fluid Dynamics (CFD), Simulation, Modelling and Parallel Programming. A former Aerospace Engineer with newly acquired skills, an insatiable intellectual curiosity and the ability to mine hidden gems located within large sets of structured and unstructured data. Able to leverage a heavy dose of mathematics and applied statistics with visualization and a healthy sense of exploration.

CORE COMPETENCIES

Analytical Thinking | Organisation and Planning | Oral and Written Presentation
Critical Reasoning | Data Gathering, Processing and Dissemination | Problem Solving
Engineering | SQL | Data Mining | Machine Learning

TECHNICAL SKILLS

Programming and Tools: FORTRAN, C++, MatLab, R, T-SQL, Azure ML
CFD/CAD: Ansys-Fluent, OpenFOAM, CATIA, NX CAD/CAM/NASTRAN, Creo
Productive Tools: Microsoft Office, Microsoft Excel, Latex
Operating System: Windows 7/8/10, Linux

ACADEMIC ACHIEVEMENTS

Microsoft Professional Program Certificate in Data Science

Pursuing

Edx.org, online course

- Microsoft Professional Program provides a comprehensive program of study in data science using 10 certifications and a Capstone project to solve a real-world data science problem.
- The certifications includes:
 - Microsoft Excel to explore data (Completed)
 - Transact-SQL to query a relational database (Completed)
 - Create data models and visualize data using Excel (Completed)
 - Apply statistical methods to data (Completed)
 - Using R to explore and transform data (Completed)
 - Data science methodology (Completed)
 - Create and validate machine learning models with Azure Machine Learning (Completed)
 - Writing R code to build machine learning models (Completed)
 - Applied Machine Learning (Completed)
 - Capstone Project (Undergoing)

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ACADEMIC ACHIEVEMENTS CONTINUED...

MSc. Computational Fluid Dynamics (CFD)

2015-2016

Cranfield University, United Kingdom

- Study issues associated with air flows, vehicle dynamics and control and methods for computational (turbulence) modelling.
- Gain skills to facilitate measurement, analysis, modelling and simulation of airflows and aerial vehicles.
- Completed modules, including: Steady and Unsteady Incompressible / Compressible Flow, Managing Uncertainty, Grid Generation, Fluid-Structure Interaction, Multiphase Flow and Combustion and CFD for Rotating Wings.
- Project: Studied impact of unsteadiness on uncertainty in automotive aerodynamic simulation in collaboration with Jaguar Land Rover (JLR). Provided an analysis methodology and tool quantifying and minimising uncertainty in unsteady aerodynamics simulations while scrutinising the effect of low-frequency wake fluctuations, risks of bi-instability in certain wakes and validation using OpenFoam.

Bachelor of Technology, Aerospace Engineering

2009-2013

Amity University, India

- Studied subjects associated with aerodynamics, aircraft design / structure / material / processes, boundary layer theory, computational structural analysis, mechanics of solid/fluid, propulsion and thermodynamics.
- Project: design and optimisation of Unmanned Aerial Vehicle (UAV); selected suitable materials to optimise flight time using quadcopter configuration with simulations performed for suitable configuration of quadcopter design to reduce vibrations and drag during take-off and flight.

INDUSTRY EXPERIENCE

Hindustan Aeronautics Ltd.

2012

- Enhanced awareness encompassing aircraft fuel systems and new and emerging developments for future aircraft.

Pawan Hans Helicopters Ltd.

2011

- Gained skills surrounding helicopter aerodynamics and maintenance, quality control and production planning while cementing an appreciation as to the importance of maintenance operations post-flight.

CERTIFICATIONS AND TRAINING

Master Diploma in Aerospace Design | CADD Centre Training Services, New Delhi

Six Sigma Green Belt | British Standards Institution (BSI)

Foreign Language | Amity School of Foreign Languages

