# **SATTWIK SUMAN** DAS

M.Sc. Data Analytics and Decision Science

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## PROFILE:

- 7 years of work experience in Space Industry.
- Internship experience in Autonomous Driving, Machine Learning, Database Migration and Web Development.
- Seeking Master's Thesis opportunity in the industry.

**NATIONALITY:** Indian

**BIRTH:** 24.12.1989

**MARITAL STATUS:** Married

## SKILLS:

- Data Science
- Machine Learning
- Artificial Intelligence
- Reinforcement Learning
- Time Series Analysis
- Optimization
- Supply Chain Management
- Database Management
- Web Design
- Project Management
- Quality Assurance
- Vibration Testing

## TOOLS AND UTILITIES:

- Python
- R, SQL, C++, MATLAB (elementary proficiency)
- Microsoft Office
- Spyder, PyCharm, Jupyter Notebook
- WordPress
- Photoshop

## ACHIEVEMENTS AND AWARDS:

- National Talent Search Scholarship
- D.A.V Scholarship
- 7th rank in State in All India Senior School Certificate Examination

## EDUCATION

**M.Sc. Data Analytics and Decision Science, RWTH Business School, Aachen, Germany**
10/2019 – present
Coursework: Data Structures and Algorithms, Machine Learning, Predictive Modelling, Optimization Models, Heuristics Optimization and Strategic Management
Overall Grade: 1.1 (after 2 semesters)

**B.Tech. Aerospace Engineering, Indian Institute of Space Science and Technology, Thiruvananthapuram, India**
08/2008 – 06/2012
Minor: Navigation, Guidance and Control
Overall Grade: 8.78/ 10

## WORK EXPERIENCE

**Autonomous Driving Intern, Bosch,** Renningen, Germany
10/2020 – present
- Synchronization of data labels with Lidar and Camera data
- Augmentation of 3D Point Cloud data
- Training ML models on multimodal sensor data
- Deployment of code using Git and Jenkins

**Consultant Intern, IMP³ROVE European Innovation Management Academy EWIV (A Kearney Subsidiary),** Düsseldorf, Germany
02/2020 – 10/2020
- Database migration with SQL and Python
- Design of website with WordPress
- Secondary research for consulting projects

**Engineer (R&QA), Project Manager (QA-Mech) for Oceansat-3 spacecraft, U.R. Rao Satellite Centre, Indian Space Research Organization,** Bengaluru, India
09/2012 – 09/2019
- Vibration testing on spacecraft and subsystems
- Database management tool for digitization of workflow
- ISO 9001:2015 QMS implementation and internal auditing

## PUBLICATIONS

Raghavendra B. Kulkarni, Sattwik Suman Das, **Simulation Methodologies for Various Mechanism Subsystems for Dynamic Testing,** Indian National Society for Aerospace and Related Mechanisms Conference, 2016

Sattwik Suman Das, Shashank S, Tanveer Ali, Pankaj Priyadarshi, **Design and Analysis of Low-Cost Unmanned Airship for Flood Relief**, 9th International Airship Conference, Ashford, 2012

## CERTIFICATION AND TRAINING:

- Basics of Data Analytics, Indian Institute of Science
- Vibration and Noise Control in Engineering Structures and Systems, Indian Institute of Science
- Structural Analysis and Design Optimisation for Engineering Structures and Systems, Indian Institute of Science
- ISO 9001 2015 Internal Quality Auditor, Indian Space Research Organization
- Combinatorial Optimization at Work, TU Berlin and Berlin Mathematical School

## LANGUAGES:

- English, Hindi, Odiya (Native level proficiency)
- German (A2)

## HOBBIES AND INTERESTS:

- Driving
- Podcasts
- Teaching
- Music
- Cooking

## ACADEMIC PROJECTS

**Efficient trash collection using Artificial Intelligence,** RWTH Aachen Business School
02/2021 – present
Creating a Reinforcement Learning model to aid efficient garbage collection.

**Robust and Stochastic method for Supply Planning by modelling the uncertainty in demand,** RWTH Aachen Business School with Barkawi Management Consultants
04/2020 – 07/2020
Forecasting over historical demand data, Deterministic Dynamic Programming for supply planning and Stochastic Modelling over demand scenarios to take care of uncertainty in demand.

**Predicting Bankruptcy using Machine Learning,** RWTH Aachen Business School
11/2019 – 12/2019
Handling large data frames, implementing Machine Learning methodologies to make predictions, and analyzing and reporting the results.

**Design and analysis of low-cost unmanned airship for flood relief with a novel multi-chamber concept,** Indian Institute of Space science and Technology
01/2012 – 04/2012
Designing, manufacturing and flight testing a scale model of the airship.

## REFERENCES

**Lisa Berle, Project Leader & Partner Management,** IMP³ROVE European Innovation Management Academy EWIV
lisa.berle@kearney.com

**Sumeet Kumar, Project Manager**, Indian Space Research Organization
sumeet@ursc.gov.in