

# GOUHER DANISH

Data Science professional with total 6.5 years experience and 2.5 years relevant experience in developing end-to-end impactful and scalable machine learning solutions across aircraft, insurance and banking services industry

## EXPERIENCE

**BDI Plus | Bangalore** – Data Scientist [Jul' 18 – Present]

### Social Network Analysis and Customer 360

- Developed an intelligent insurance platform that substantially reduced the policy issuance time and enabled our customer to process the insurance much faster
- Prepared synthetic data according to the customers demographics that connected to the clients and enabled us to convert many deals
- Quantified important network statistics pertaining to customer's network e.g. Closeness, Centrality, Betweenness and Influence scores and implemented these
- Scaled up the project to cater to the needs of different clients viz. Financial services, Oil Distribution Domain etc.

### Product Development

- Developed Graph Algorithms e.g. Shortest Path, Graph Min Cut, Belief Propagation.
- Developed scalable modules for network project using Scala and Spark
- Developed API and Microbatch services in Java using Spring Framework
- Working in linux environment and using Cloud Services like AWS S3

**Infosys | Mysore** – Engineering Analyst [Aug'12 – Jul'18]

### Food Industry Analytics (Apr'18 – Jul'18)

- Understanding requirements to reduce overfill in food packaging industry
- Building visualizations and Proof of Concepts (PoC) to leverage AI/ML to solve client problem

### Pump Data Analytics (Aug'17 – Apr'18)

- Forecasting Pump data with Multivariate Time Series using Vector Auto-Regression (VAR)
- Predicting Pump Failure using SVM classification and Random Forest Regression Algorithm
- Expertise in implementing end-to-end Machine Learning project for Engineering Systems

### Aircraft Stress Analysis (Aug'12 – Aug'17)

- Stress analysis of MAX Airplane Tail components - Torque Box and Texas Star
- Stress analysis of Fuselage Frames, Doorsills, Shear Ties, Stringer Clips etc.
- Strength Check Note (SCN) Documentation

**HAL | Orissa** – Summer Intern [May'10-Jul'10]

Developed a first-hand experience and theoretical knowledge in advanced aircraft manufacturing technologies mainly Electron Beam Welding and Detonation Coating

## EDUCATION

**Indian Institute of Technology, Bhubaneswar** [Jul'08-Jun'12]

*B.Tech in Mechanical Engineering (CGPA 8.48/10)*

**Class XII (CBSE) 2007 – 89.6 %**

**Class X (CBSE) 2005 – 92.8 %**

## ACHIEVEMENTS

**Analytics Vidhya Game of Deep Learning Hackathon 2019** - Ranked 136 / 2086

**HackerEarth LMG Analytics Hiring Challenge 2018** – Ranked 71 / 4464

**Analytics Vidhya AmExpert ML Hackathon 2018** – Ranked 529 / 4526

**WHO Suicide Statistics** – Published Kaggle Kernel

(+91) 879-255-8264

[gouherdanishiitkgp@gmail.com](mailto:gouherdanishiitkgp@gmail.com)

[www.linkedin.com/in/gouher-danish](https://www.linkedin.com/in/gouher-danish)

## TECHNICAL SKILLS

R, Scala, Python, Spark

SQL, MongoDB, Hive, GraphX

Regression, Classification, Time Series, Deep Learning, Visualization (R ggplot2, Python Matplotlib)

## CERTIFICATIONS

**Spark Level 1** | Cognitive Class, IBM

**Exploring Spark's GraphX** | Cognitive Class, IBM

**Machine Learning** | Coursera, Stanford Univ)

**Python for Data Science** (edX, Microsoft)

**Machine Learning Training**, Infosys

**Data Science Specialization**, Infosys

## AWARDS

Received **Insta Award** twice for Python Expertise and leadership

Received **Most Valuable Player Award**

Received **Spot Award** for outstanding work ethic

Received **MCM Scholarship**

## PROJECTS

**Optimizing FEM Solvers for Waveguide Discontinuity, IIT Bombay**

- Developed a novel technique using edge-based formulation to avoid spurious modes encountered in commercial FEM solvers.
- Showcased this work in a workshop at C-DAC and ADA, Bangalore, 2011
- Presented a conference paper at Annual CFD Symposium at IISc Bangalore, 2011.

**Numerical Simulation of Semisolid Metal Processing, IIT Bhubaneswar B.Tech Project**

- Designed a novel cooling slope with water cooling
- Studied the effect of cooling slope angle on the microstructure