

# Sai Krishna Thogaru

Achievement-driven professional, targeting a challenging assignment with a reputed company for further implementation of skills

Location Preference: Hyderabad & Bengaluru



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## Profile Summary

- A Masters in Data Sciences with **6 years of experience** in the Oil & Gas Industry with a focus on **Business Analytics, Data Science & Data Analytics**
- Comprehensive understanding of the concepts of Data Science- Advanced Analytics, Predictive Modelling, Machine Learning Algorithm in multiple technical and functional domains
- Rich onsite & offsite experience in design, development, testing and implementation of applications; capable of independently leading various projects and ensuring timely completion of the same
- Organized, analysed, synthesized and summarized data using appropriate methodologies; gathered user requirements and translated the same into technical and system specifications
- Skilled in Data Analysis/ Business Analysis practice; analyzing problems and uncovering opportunities using statistical analysis, forecasting/ predictive modelling & visualizations
- Efficiency in gathering and understanding requirements of clients & other multiple stakeholders, followed by translation into functional specifications as well as provisioning of suitable Business Analytics/ Data Analytics driven solutions

## Core Competencies

Predictive Modelling & Forecast Analysis

Deep Learning

Data Analytics Roadmap

Machine Learning & Model Building

Product Management

Data Structure / Algorithms

Requirement Gathering & Analysis

Process Improvement / Automation

Statistical Modeling

## Academic Details

- **Masters in Data Sciences** from Liverpool John Moores University (UpGrad) with a CPI of 3.7 out of 4 in 2021
- **Bachelor of Technology (Mechanical Engineering)** from Indian Institute of Technology, Patna with a CPI of 8.54 out of 10 in 2015

## Work Experience

**Bharat Petroleum Corporation Limited, Bengaluru**

**Since July 2015**

**Growth Path:**

**Executive Operations Officer** : July 2015 - March 2018

**Assistant Manager** : April 2018 - March 2021

**Manager** : Since April 2021

**Key Result Areas (Manager):**

- Formulating, suggesting, and managing data-driven projects aimed at furthering the business interests
- Ensuring proper alignment of analytics with strategic business initiatives encompassing understanding and building of recommendation engines and store viability models
- Managing the Terminal Automation System (TAS) with data-driven analysis for solving business problems and Maintenance of TAS i.e. tenders with corrigendum and warranty/ CAMC details
- Producing manuals & drawings, SIL/ CCOE/ WM Certificates, functional design specifications, FAT report & compliance
- Working on full development cycle of planning, analysis, design, development, testing, and implementation using data mining and data analysis tools; planning preventive maintenance schedule of each equipment, level alarms & HLS probe length calculators, commissioning/ loop checking reports, SAT report and compliance

### Highlights:

- Devised TAS Uptime Module with model for prediction of Operability Index and Performance with run-down time of each equipment for necessary action
- Successfully captured the different seasonal trends in demand of petroleum products using Time Series Forecast Analysis and managed assets with maximum efficiency to meet the demand
- Developed intricate algorithms based on deep-dive statistical analysis and predictive data modelling

### Key Result Areas (Assistant Manager)

- Integrated the video analytics of plant, Alarm Management System, Vehicle Tracking System along with TAS for alerts generation with consequences prediction in line with Management of Change (MOCs) and Standard Operating Procedures
- Mapped business requirements by undertaking quick gap analysis, understood business processes and analysed the workflow to design solutions; performed data analysis of TAS reports for strategic business development decisions
- Administered plant maintenance by establishing **NANO (No Operation with No Automation)** with Terminal Automation System Management which included automatic filling of trucks, Tank Farm Automation Management, Automatic Safety System Management complying with OISD standards and tenders & contracts for manpower at the installation

### Highlights:

- Developed Auto Invoicing System, IRIS Integration, Electro Magnetic Locking System for data driven decision-making
- Widened the pipeline, tank wagon & tank truck transfer of petroleum products with Vehicle Tracking System Analytics for efficient and safe logistics system development
- Enhanced data collection procedures to include information that was relevant for building analytic systems

### Key Result Areas (Executive Operations Officer):

- Conducted petroleum products stock accounting and maintenance using SAP
- Headed the calibration and quality control of petroleum products (Non-Aviation & Aviation Products)
- Gathered requirements, provided solutions & functional specifications and configured the system

### Founder of ShineU Eduventures, Hyderabad

Since July 2018

### Key Result Areas:

- Created an education focused data analytics platform that joins the vision of schools, learners and parents by building products used where uniqueness of students is reflected in an intuitive and strategic way to show student's learning process and performance
- Developed strong market knowledge of existing and potential clients and ensured business growth opportunities aligned to company's strategic plans
- Provided in-depth analysis of markets, industry trends, competitors and clients to improve the strategic planning and decision-making

## Academic Projects

### CNN Based Model to Detect Melanoma, Python

May 2021

Hypothesized a multiclass classification model using a custom convolutional neural network in TensorFlow. Built different custom CNN models to detect accurately the 9 classes with different optimizers including Adam, Adagrad & SFD and activation functions of Relu, Sigmoid & Softmax along with data augmentation and augmenter library for class imbalances using Google Colab. Developed the final CNN model with an accuracy of 85% in test data.

### Regression Model for Surprise Housing (US Based Company), Python

January 2021

The project aimed to build a regression model in order to predict the actual value of prospective properties and further decide whether to invest for the company looking at prospective properties to buy and enter the Australian market. Built different Models of Linear Regression, Random Forests & XGBoost in Python and compared for effective analysis. Developed a final Regression Model with an accuracy of 91.3% on test data.

## IT Skills

**Languages:** Python, SQL

**Technology & Software:** SAP, Tableau, Excel, Nimblebox, GoogleColab, Github, AutoCAD, Pro-E, SolidWorks, ANSYS, LATEX

## Personal Details

**Date of Birth:** 6<sup>th</sup> January 1993

**Languages Known:** English, Hindi & Telugu

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