

## **Malliswar Tekumudi**

Head – Innovation & Product Engineering @ THINKSEA Consulting India Pvt. Ltd.

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<http://about.me/malliswar>

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Dear Sir/Madam,

I am Malliswar Tekumudi, currently working as Head – Innovation and Product Engineering at Thinksea.

I have experience in different fields for last 14 years; started my career in petrochemical complex and moved to DRDO as scientist where I involved in development of fuel cells and portable reformers. Then moved to process engineering software product house, Invensys. The present company is (Thinksea) is a healthcare Product house that developed various products for healthcare institutions.

Mathematics is my interested subject and utilizing the mathematics for real time applications is my passion. During my earlier jobs, I was always doing the same; I have done mathematical modeling for fuel cells and reformers when I was in DRDO using MATLAB. In the current position at Thinksea, I worked on healthcare Data Modeling and Analytics (Neural Networks, Regression, Clustering, Fourier Forecasting etc)

Applying machine learning techniques in combination with autonomous sensing devices in the areas of RETAIL (like consumer behavioral analysis), ENGINEERING (like predictive maintenance), LOGISTICS, and HEALTHCARE are what my interested areas.

I have gone through your company profile in website and understand that you are working in the similar areas that are of my interest. I feel that given an opportunity to work with you, I can contribute to the best of my capabilities along with your business lines.

I am attaching my resume herewith for your kind consideration for any suitable job in your company and request you to call/ mail back for any clarifications.

Regards,

Malliswar Tekumudi

## Malliswar Tekumudi

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### Executive Profile

An engineering graduate and Ph.D drop out from IIT Bombay having total 14 years of experience, and more than 5 years of experience exclusively in mathematical modeling, machine learning algorithms and big data analytics.

- A total 14 plus years of experience in diversified fields - Engineering, R & D, software development, Data Analytics and Management.
- Around 5 years of experience in Mathematical modeling & Data Analytics and algorithms.
- More than 3 years of experience in software development, responsible for delivery and quality control of different chemical process simulation software.
- Certified scrum master, able to run the product engineering team in Agile Process and deliver the product as per client requirements.
- 8 plus years of Research and Development experience Defence Research and Development Organization (DRDO, Ministry of Defence, GOI)
- Worked for large scale government and public projects, tenders and biddings. Good experience on deal making, negotiations and proposal engineering.
- Worked in petrochemical complex near around one year as Panel / Field officer.

### Career Profile:

#### 1. THINKSEA Consulting India Pvt. Ltd (Currently working)

*Head – Innovation & Product Engineering*

##### Responsibilities :

- To perform healthcare Analytics for prediction of patient flow, clustering of patients, finding outliers
- To develop machine learning algorithms for prediction of Diabetes and Heart Attack.
- Responsible for complete product engineering, usability, interface design and product innovation.
- Process champion for THINKSEA Agile process, A tailor made Agile process to accelerate productivity.

#### 2. Invensys & Cognizant Technology Solutions

*Principle Product Assurance Engineer*

December 2008 – March 2012

##### Responsibilities :

- To automate the regression test suite of simulation software that handles large data using PERL, Vb Script etc.
- To lead the QA team to develop various chemical process simulation software.
- Responsible for timely delivery of the product as per client specifications and quality criteria.
- Scrum Master for the Team.
- Responsible for product release certification.

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### 3. Naval Materials Research Laboratory (NMRL), Defence R&D Organization, DRDO, Govt. of INIDA

Scientist

February 2000 to December 2008

#### Responsibilities :

- To develop mathematical models for various reforming processes with heat integration using MATLAB
- Design and development of fuels cells with reformers of different capacity.
- To lead group of engineers and scientists of different disciplines for prototype development of the fuel cell systems.
- To liaison with academic institutions for sub projects related to modeling and system study.

### 4. Indian Petrochemical Corporation Ltd(IPCL)

Panel / field officer in Polypropylene Plant

July 1999 to January 2000

#### Responsibilities :

- To work on DCS systems as panel officer.
- Supervise plant floor as field officer.

## Educational Details

Qualification	University
❖ <b>Ph.D, – Dropout ( After Completion of Two Semester course work, equivalent to M.Tech)</b> Topic : Mathematical modeling of Kinetics embedded fluid dynamics Fuel Cells )	Indian Institute of Technology (IITB), Bombay , INIDA
❖ <b>B.Tech in Chemical Engineering</b>	Regional Engineering College(REC), Warangal , INDIA

Primary Skill category	Data Analytics, Mathematical Modeling, Software Product Engineering
Project skills	Certified Scrum Master
Technical Skills	MATLAB, MathCAD, R, FLUENT, C,C++, Perl
Domain Skills	Mathematical Modeling, Engineering, Healthcare Analytics, Non-Conventional Energy Systems
Linguistic Skills	English, Hindi & Telugu

## Personal

40 years, Male, Married, live with wife and Son at Hyderabad, AP State , INIDA .

Indian National, Passport Number: A7815202

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### Key Achievements

#### @THINKSEA

- Developed machine learning algorithms to predict the risk of diabetes and heart attack using MATLAB as computational engine.
- Developed mathematical models for prediction of patient flow in hospital, using Multi Variant Linear Regression as well as Fourier Series Models.
- Developed clustering algorithms that find out groups based of set of patients with given attributes. It also reveals the outliers in the set of patients.

#### @INVENSYS & COGNIZANT

- Developed result extraction tool for regression test suit of a process simulation software using PERL. It saved around 20hrs per week of manual effort for result extraction from huge data sets of the results. Got KOHI-NOOR award (in Cognizant) for the same.
- Developed and deployed Continuous Integration (CI) tools for a simulation package using VBScript and Shell Commands.
- Automated process flow chart comparison tool with automatic report generation using QTP.

#### @NMRL, DRDO

- Developed Two Dimensional mathematical models for CNG & Methanol reformer with heat integration using MATLAB.
- Developed kinetic embedded fluid dynamics model for fuel and oxidant flow in fuel cells.