

# Job Notification Form, IIT Delhi

## Company Overview

**Name:** Tvarit GmbH

**Website:** [www.tvarit.com](http://www.tvarit.com)

**Company Type:** Core (Technical)

**Description:** Tvarit is an EU recognized German Big Data Solution Provider SME company. Tvarit consists of 30+ Prominent AI Experts. Founders come from research backgrounds, having working experience in Intel, Qualcomm, NASA, etc and bring 20+ years of experience in the field of Data-Driven Business Models. Tvarit have built more than 4 market ready AI solutions already. Tvarit builds and provides Big Data solutions to solve manufacturing-related data-driven problems with its Industrial AI platform. Some use cases are Predictive Maintenance, Quality Prediction, Process Optimization etc. Tvarit is funded by Frankfurt-based Venture Capitalists Futury Ventures and is trusted by customers across Germany such as Kamax, Hindalco, E-opt GmbH, Maxion, Trumpf, Bosch, Daimler etc.

Tvarit keeps itself upto date with the most innovative research and is supported by TU Darmstadt SPG group(80+ patents) and Fraunhofer LBF institute in Germany. Tvarit was announced as one of 8 winners among 490 big data companies in Europe by EDI European Union H2020. Tvarit was also announced as the most innovative startup by TiE Deutschland in 2018.

Tvarit is a Sanskrit word which means "Fast & Persistent", which are our key values of our organization.

## Job Details

**Designation:** AI Researcher

**Type:** Core (Technical)

**Place of Posting:** Mumbai

**Job Details:** Your Responsibilities:

- Work with manufacturing clients, understanding various problems and failures in different kinds of manufacturing process and use AI to solve these challenges.
- Working with manufacturing machines data formats, data cleaning and defining performance measures based on pre-processing of data
- Define a set of features on the basis of hundreds of sensors signals coming from a single machine, work on building time series forecasting and other cross metric ML models
- Image processing of engineering drawings using deep learning techniques to extract several features and map it to relevant fields.
- Search for the latest research papers as per use case and make Proof-Of-Concept.
- Collaborate with production engineers to deploy the results of your research.
- Develop evaluation techniques to gauge the performance and accuracy of the models you build
- Write production-ready code in Python / R for above models, further write unit tests, integration tests, end to end tests

Your Background:

•Know- how of machine learning algorithms e.g., ARIMA, Linear Regression, Neural Networks and the math needed to for this such as linear algebra, probability, statistics.

•Strong hands--on skills with time series databases InfluxDB, SQL, Postgres etc

•Ability to write code in a scripting language (Python, Perl, Bash etc)

•Strong knowledge of Deep Learning tools such as Pytorch and Tensorflow.

•Knowledge of various image processing algorithms such as segmentation, feature descriptors and morphology is encouraged.

•Strong coding ability. While theoretical knowledge of algorithms is appreciated, it is also important that you're able to write clean, efficient code in Python (with a focus on testability and using OOP) on a Linux platform.

Our Team Culture:

•We provide hands--on statistical solutions for the automotive and manufacturing industry in Germany to highlight trends and generate insights

•We have closely worked with Deutsche Bahn, Linde, Liebherr creating AI for machines health and work closely with their backend databases and data engineering teams

•We act as the primary point of contact for business forecasting, delivering metrics/analytics that drives the organization and helps senior management taking data-driven business decisions

**Joining By:** 1 July 2022

## Salary Details

**CTC:** 1,500,000 INR Per Annum

**Gross:** 1,380,000 INR Per Annum

**CTC Breakup:** Basic 1000000  
HRA 228000  
Special Allowance 152000  
Gross Total 1380000

Deductions

PF 12% of Basic (Employee Contribution) 120000

TDS\* 195000

Professional Tax 2500

Net Payment 88550.00

Employer Contribution to PF 120000

Cost to Company (4+7) 1500000

## Selection Process

**Resume Shortlist:** Yes

**Written Test:** No

**Online Test:** Yes

**Group Discussion:** No

**Medical Test:** No

**Personal Interview:** Yes

No. of 3  
Rounds:

No. of 2  
Offers:

## Eligibility

**Recruiting  
PHDs:** Yes

**Eligible  
Departments:** B.Tech in Biochemical Engineering & Biotechnology, B.Tech in Chemical Engineering, B.Tech in Civil Engineering, B.Tech in Computer Science & Engineering, B.Tech in Electrical Engineering, B.Tech in Electrical Engineering (Power and Automation), B.Tech in Engineering Physics, B.Tech in Engineering and Computational Mechanics, B.Tech in Materials Engineering, B.Tech in Mathematics & Computing, B.Tech in Mechanical Engineering, B.Tech in Production & Industrial Engineering, B.Tech in Textile Engineering, B.Tech and M.Tech in Biochemical Engg & Biotechnology, B.Tech and M.Tech in Chemical Engineering, B.Tech and M.Tech in Computer Science & Engineering, B.Tech and M.Tech in Mathematics & Computing, M.Tech in Applied Optics, M.Tech in Atmospheric-Oceanic Science and Technology, M.Tech in Biomedical Engineering, M.Tech in Chemical Engineering, M.Tech in Communications Engineering, M.Tech in Computer Science & Engineering, M.Tech in Computer Technology, M.Tech in Construction Engineering & Management, M.Tech in Control & Automation, M.Tech in Energy & Environment Technologies and Management, M.Tech in Energy Studies, M.Tech in Engineering Analysis & Design, M.Tech in Environmental Engineering & Management, M.Tech in Fibre Science & Technology, M.Tech in Geotechnical and Geoenvironmental Engineering, M.Tech in Industrial Engineering, M.Tech in Industrial Tribology & Maintenance Engineering, M.Tech in Instrument Technology, M.Tech in Integrated Electronics & Circuits, M.Tech in Materials Engineering, M.Tech in Mechanical Design, M.Tech in Molecular Engineering: Chemical Synthesis & Analysis, M.Tech in Optoelectronics & Optical Communication, M.Tech in Polymer Science & Technology, M.Tech in Polymer Science and Technology, M.Tech in Power Electronics, Electrical Machines & Drives, M.Tech in Power Systems, M.Tech in Production Engineering, M.Tech in Radio Frequency Design & Technology, M.Tech in Rock Engineering & Underground Structures, M.Tech in Solid State Materials, M.Tech in Structure Engineering, M.Tech in Telecommunication Technology & Management, M.Tech in Textile Chemical Processing, M.Tech in Textile Engineering, M.Tech in Thermal Engineering, M.Tech in Transportation Engineering, M.Tech in VLSI Design Tools & Technology, M.Tech in Water Resources Engineering, M.Sc in Chemistry, M.Sc in Cognitive Science, M.Sc in Economics, M.Sc in Mathematics, M.Sc in Physics, M.S.(R) in Applied Mechanics, M.S.(R) in Biochemical Engineering and Biotechnology, M.S.(R) in Biological Sciences, M.S.(R) in Telecommunication Technology and Management, M.S.(R) in Civil Engineering, M.S.(R) in Chemical Engineering, M.S.(R) in Computer Science & Engineering, M.S.(R) in Electrical Engineering, M.S.(R) in Sensors, Instrumentation and Cyber-physical System Engineering, M.S.(R) in Automotive Research and Tribology, M.S.(R) in VLSI Design Tools and Technology, M.S.(R) in Mechanical Engineering, M.S.(R) in Materials Science and Engineering, M.S.(R) in Information Technology, B.Tech in Civil Engineering and M.Tech in Geotechnical and Geoenvironmental Engineering, B.Tech in Civil Engineering and M.Tech in Water Resources Engineering, B.Tech in Mechanical Engineering and M.Tech in Thermal Engineering, B.Tech in Mechanical Engineering and M.Tech in Computer Science & Engineering, B.Tech in Civil Engineering and M.Tech in Structural Engineering, B.Tech in Civil Engineering and M.Tech in Construction Engineering & Management, B.Tech in Textile Engineering and M.Tech in Computer Science & Engineering, B.Tech in Engineering Physics and M.Tech in Computer Science & Engineering, B.Tech in Chemical Engineering and M.Tech in Computer Science & Engineering, B.Tech in Production & Industrial Engineering and M.Tech in Computer Science & Engineering, B.Tech in Mechanical Engineering and M.Tech in Computer Science & Engineering, B.Tech in Mechanical Engineering and M.Tech in Computer

Science & Engineering, B.Tech in Production & Industrial Engineering and M.Tech in Production Engineering, M.B.A. (General), M.B.A. (with focus on Management Systems), M.B.A. (with focus on Telecommunication Systems management), M.B.A. (with focus on Part Time)