



# Himanshu Vaidya

## Engineering Leader (Product and Platforms Engineering, Data and AI)

Thought Leader, Technology Evangelist and Visionary Researcher with Rich Leadership Experience driven through Innovation, Discipline and Passion



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## WORK EXPERIENCE

### Engineering Leader (Product Engineering, Data and AI)

Altimetrik

02/2021 - Present

Service Based Giant with Product Development Sister Organization

Pune, India

#### Achievements/Tasks

- Established myself as a Thought Leader, leading multiple accounts and portfolios across Product and Platform Engineering, Data and Artificial Intelligence
- Managed team sizes close to 300 in size and business of close to 12M+ USD, overall 30M USD
- Leading Multiple Product and Platform Engineering org-wide initiatives, including innovation in Big Data and AI/ML space
- Participated in Money 2020 international conference related to FinTech specifically supporting the Quantum Computing Applications showcase for Finance Industry
- Conducted and led multiple org-wide trainings and sessions on Quantum, AI and Product Engineering
- Grown new business, expanded existing business focused on Product Engineering, Data and AI for multiple Business Domains (primarily FinTech, Online Retail and Healthcare)

### Technical Director & India Head (Big Data and AI CoE)

Globant

10/2018 - 02/2021

Service Based MNC with focus on Emerging Technologies

Pune, India

#### Achievements/Tasks

- Established the India division of Big Data and AI CoEs, by working as an Intrapreneur by owning Business, Technology and Talent Responsibilities
- Worked as a Chief Big Data and AI Architect to establish Business in Big Data and AI across the EMEA Region
- Managed P&L for Big Data and AI India CoEs, and established Globant India as a brand in Big Data and AI



## SKILLS

Product and Platform Engineering

Enterprise Data Architecture

Big Data Machine Learning

Quantum Algorithms, AI Quantum, Quantum Software, Quantum Neural Networks

Edge Machine Learning

Engineering Analytics

Advanced Analytics

Data Mesh Architecture

Distributed Application Architecture

Empirical Software Engineering

ML Ops, Data Ops, AI Ops

SDLC, Scrum of Scrum, Kanban

P&L, People, Technology, Program & Revenue Management

Business Expansion, New Business Development

Thought Leadership

Space Sciences, Astrophysics and Cosmology

Mathematical Modeling

Scientific Software Development



## WORK EXPERIENCE

### Principal Architect

CapGemini

04/2016 - 10/2018

*Achievements/Tasks*

- Worked on multiple IPs in Engineering Analytics, Edge ML, and Mesh Computing
- Developed and Deployed an Engineering Analytics Platform from scratch
- Established Best Practices in Advanced Analytics, Platform Engineering and Co-R&D initiatives with teams working for Fortune 500 MNC Clientele
- Specialized Work in Predictive Maintenance related Analytics Software Development
- Specialized Work in Reusable Components based Library generation on Containerized Cloud Infrastructures (AWS)
- Specialized in Enterprise Data Architecture, Pre-Sales Solution Architecture

### Senior Engineering Lead

Acellere (now Embold Technologies)

2011 - 2016

*Achievements/Tasks*

- Worked on developing a Code Analytics Platform and Product from scratch, involving Machine Learning, AI, and Java, Python and Perl languages
- Provided Specialized Software and Analytics Consultancy to Fortune 100 MNC clientele in Oil and Gas, Aerospace and Defense domains. Consulted US and China Divisions of a Data Intensive Software Development Team for largest Oil and Gas Giant
- Lead multiple International R&D projects funded by the German Government: i) Automatic Identification, Extraction, and Reuse of Software Components (<http://www.kmu-devise.de/>), and ii) Semi-Automatic Analysis of Concurrency Issues in Software Systems. (International Research Collaborations with: Fraunhofer Research Institute, Karlsruhe Institute of Technology, Saarland University, FZI, etc.)

### Senior Research Computing Specialist

The Dow Chemical Company (TDCC)

02/2007 - 01/2009

*Achievements/Tasks*

- Worked on Software Applications in .NET and Java languages for the Informatics and Robotics Laboratories of The Dow Chemical Company
- Specialized Work Experience at Midland, MI, USA and Houston, Texas, USA on High Throughput Research Informatics and Robotics
- Worked on Data Mining, Data Visualization and Statistical Pattern Recognition Software Development



## CONFERENCES & COURSES

Pune Data Conference 2019 (Largest Data Conference in Pune City, India)

(03/2019 - 03/2019)

*Clairvoyant*

- Participated as a Speaker in Big Data and AI (<https://www.youtube.com/watch?v=w9PVLwpZlXy>)

Global Artificial Intelligence Summit and Awards (09/2021 - 09/2021)

*All India Council for Robotics and Automation, New Delhi, India*

- Participated as a Delegate in the Summit. Received the award "Excellence and Innovation in AI Education" for the ongoing Ph.D. Research Work in Quantum AI and Education Initiatives in Quantum Computing and Quantum AI (<https://youtu.be/dguNCA39jbg>)

Designed and Taught University Courses in Quantum Computing (2021 - Present)

*Vishwakarma Institute of Information Technology*

- Designed 2 UGC (University Grants Commission of India) approved courses in Quantum Computing: i) 6 months elective in Quantum Computing, and ii) Dual Degree course with Honors in Quantum Computing for B.E./B.Tech. students



## SKILLS

MATLAB, R, Python, Java, C, C++, C#, VC++, Perl

PyTorch, Tensorflow, Keras, numpy, scipy, pandas, statsmodels, PyCaret, AutoML

Google Colab, Jupyter Notebook, PyCharm, Spyder, Visual Studio Code, CLion, Eclipse, IntelliJ

Linux, Windows, Mac OS, Raspbian (Raspberry Pi OS)

AWS Sagemaker, AWS and Azure Cloud Services, NVIDIA Deep Learning Cloud Services



## VOLUNTEER EXPERIENCE

**Member of Industrial Advisory Board and Visiting Faculty**  
Vishwakarma Institute of Information Technology

03/2020 - Present

*Pune, India*

*Deemed University with Engineering and Multidisciplinary Courses*

*Tasks/Achievements*

- Contributed as an Advisory to The Industry Advisory Board for Computer Science and AI/Data Science
- Designed Syllabi (teaching as a Visiting Faculty) for 2 courses in Quantum Computing, approved by The University Grants Commission
- Conducted multiple sessions as a Resource Person in Faculty Development Programs for Emerging Trends in Quantum Computing and Quantum AI

*Dr. Vivek Deshpande, Director, VIIT - Available on Request*



## ORGANIZATIONS

All India Council for Robotics and Automation (10/2021 - Present)

*Professional Fellow Member of AICRA*



## HONOR AWARDS

Excellence and Innovation in AI Education (11/2021 - Present)

*All India Council for Robotics and Automation*

- Award received in the Global Artificial Intelligence Summit and Awards



## CERTIFICATES

Fundamentals of Deep Learning from NVIDIA Deep Learning Institute (DLI) (11/2021 - Present)

Building Transformer Based NLP Applications from NVIDIA DLI (11/2021 - Present)

Fundamentals of Accelerated Data Science with RAPIDS from NVIDIA DLI (03/2022 - Present)

Applications of AI for Anomaly Detection from NVIDIA DLI (03/2022 - Present)

Deep Learning on AWS from Amazon (11/2020 - Present)

Practical Data Science with AWS Sagemaker from Amazon (09/2020 - Present)

High Throughput Research Informatics and Robotics BootCamp at TDCC R&D HQ in Midland, MI, USA (09/2007 - Present)

VB.NET, ASP.NET, WPF, WCF from Microsoft Corporation (09/2007 - Present)



## EDUCATION

### Ph.D. in Quantum AI applied to Astrophysics and Cosmology

Christ University

06/2021 - Present

#### Courses

- State-of-The-Art Hybrid Quantum-Classical Algorithms for Detecting Large Scale Structures in The Cosmic Web Data from NASA Datasets
- Pursuing multiple courses in Quantum Computing and Artificial Intelligence (will be shared on request)

### M.Sc. in Space Sciences, with specialization in Astronomy and Astrophysics

Department of Space Sciences, University of Pune

2002 - 2005

#### Courses

- 3.5 years of Research Work in Radio Astronomy. Title: Structure of Extragalactic Radio Sources using Interplanetary Scintillations (IPS) M.Sc. Thesis submitted to TIFR, Pune Library.
- Acquisition and Analytics Software Developed and Deployed on 2 International Radio Telescopes (GMRT and ORT, TIFR)

### B.C.S.

S. P. College, University of Pune

1999 - 2002

#### Courses

- Data Analysis Software Project in COBOL for Processing Meteor Shower Data

### Post Graduate Diploma in Advanced Computing

Centre for Development in Advanced Computing

2005 - 2006

#### Courses

- Wind Tomography over The GMRT Array (Java based Visualization Solution)



## SUPPORTED CAUSES

Quantum Computing Awareness

Science and Technology Popularization

AI and Quantum Education

Industry-Academia Collaboration

Collaborative Multi-disciplinary, Cross-disciplinary Research

Research-led Innovation

Student Potential, Youth

Entrepreneurship

Mother Earth



## INTERESTS

Science and Technology

Yoga and Meditation

Spiritual Awakening

Music and Harmony, Music Science

Chess, Swimming, Table Tennis, Football

Travelling, Sky Watching, Astronomy

Nature, Gardening

Reading Scientific and Spiritual Books



## LANGUAGES

Marathi

*Native or Bilingual Proficiency*

Hindi

*Native or Bilingual Proficiency*

English

*Full Professional Proficiency*

Sanskrit

*Limited Working Proficiency*