

**AI & ROBOTICS**  
**FREE WORKSHOP**  
**FOR**  
**CALCUTTA SCHOOL OF SCHOLARS**



IoT, Robotics  
& AI Study

IT  
Competency

Scientific  
Knowledge

**Qnodiam, Education that enlightens!**

- ❖ Dependable Competency Partners
- ❖ Expert Industry Veterans
- ❖ Lucid & Practical

**Qnodiam's** mission is to mentor school **children into leading edge technologies** because children's appreciation for technology today, will make **India the leader** of tomorrow.



**Our globally industry leading coaches specialize in:**

1. Comprehensive teaching of Robotics & AI **board curriculum**
  - Python computing skills & all relevant libraries
  - Data Science, Analytics & Visualization
  - Machine Learning
  - Neural Networks & Deep Learning
  - Computer Vision & NLP
  - IoT & Robotics
2. Hands-on labs & project-based mentoring
3. Support beyond syllabus & instil knack for career excelling
4. Generative AI
5. Impart awareness of ethical considerations
6. Accurate **skill assessment** and **certifications**

# A BRAVE NEW WORLD



***A.I. – more profound than fire or electricity!***

- Sundar Pichai, Alphabet C.E.O.

## **Mundane Professions to Phase Out**

- ❖ Basic office jobs: Accountants, clerks, tellers, junior lawyers
- ❖ Junior software & web dev, BPOs, telemarketing & data entry
- ❖ Basic content writers, proofreaders & graphic designers
- ❖ Farming, security, factory workers & assembly line
- ❖ Packagers, drivers, warehousing workers, delivery workers

## **Experts To Need More AI Skills**

- ❖ Healthcare: Doctors, surgeons, therapists, technicians
- ❖ Teachers & educationists
- ❖ Scientists & researchers
- ❖ Software developers, trade's people, technicians & artists
- ❖ Corporate strategists, social workers & lawyers

## **Creative & Innovative Professions To Be In**

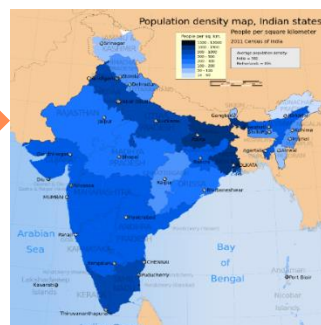
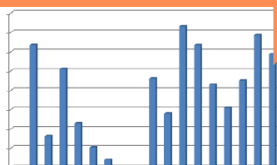
- ❖ Artificial intelligence & Machine learning engineers
- ❖ Data engineers & data scientists
- ❖ IoT specialists & robotics engineers
- ❖ Senior software engineers

# THE QNODIAM ADVANTAGE – PYTHON, DATA SCIENCE & AI

Rank	State	Population	%	Rural population	Urban population	Area (sq km)	Density (per sq km)
1	Uttar Pradesh	199,812,341	18%	131,038,339	68,774,002	240,928	830
2	Madhya Pradesh	96,876,427	9%	67,767,647	29,108,780	308,713	313
3	Bihar	97,099,109	8%	74,316,708	22,782,401	94,163	881
4	West Bengal	91,276,107	8%	67,488,749	23,787,358	88,702	1029
5	Andhra Pradesh	76,310,307	7%	55,481,304	20,829,003	149,645	510
6	Tamil Nadu	72,405,479	6%	54,911,181	17,494,298	130,000	480
7	Kerala	46,368,813	4%	34,305,674	12,063,139	38,868	1193
8	Rajasthan	74,397,188	3%	43,291,813	31,105,375	342,239	217
9	Odisha	41,995,821	3%	28,499,032	13,496,789	166,941	251
10	Chhattisgarh	22,821,017	2%	15,485,767	7,335,250	131,478	173
11	Goa	14,58,446	1%	9,37,449	5,20,997	3,702	394
12	Haryana	21,146,364	1%	13,029,260	8,117,104	44,312	478
13	Uttarakhand	10,116,575	1%	6,447,527	3,669,048	51,086	200
14	Assam	26,655,328	1%	17,116,198	9,539,130	78,438	340
15	West Bengal	91,276,107	1%	67,488,749	23,787,358	88,702	1029
16	Madhya Pradesh	96,876,427	1%	67,767,647	29,108,780	308,713	313
17	Uttar Pradesh	199,812,341	1%	131,038,339	68,774,002	240,928	830
18	India	1,028,671,329	100%	744,490,639	284,180,690	3,287,260	313

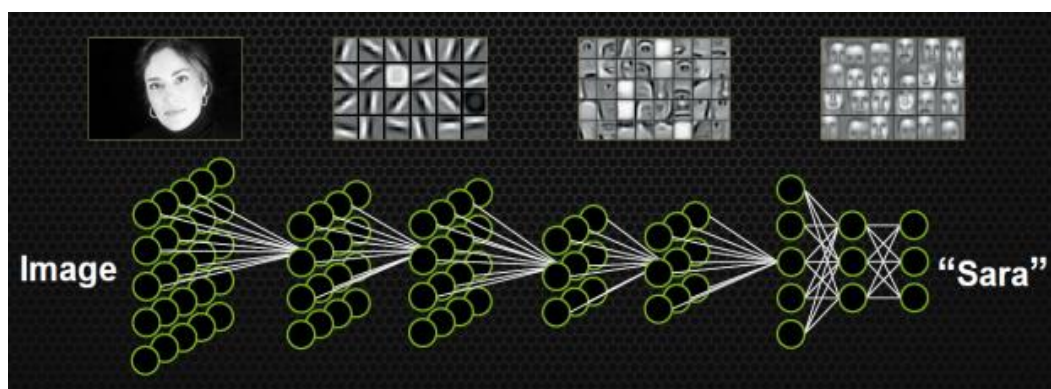
Qnodiam  
Education that enlightens!

Visualization is key



## ❖ Visualize the DATA & SCIENCE of data science/AI:

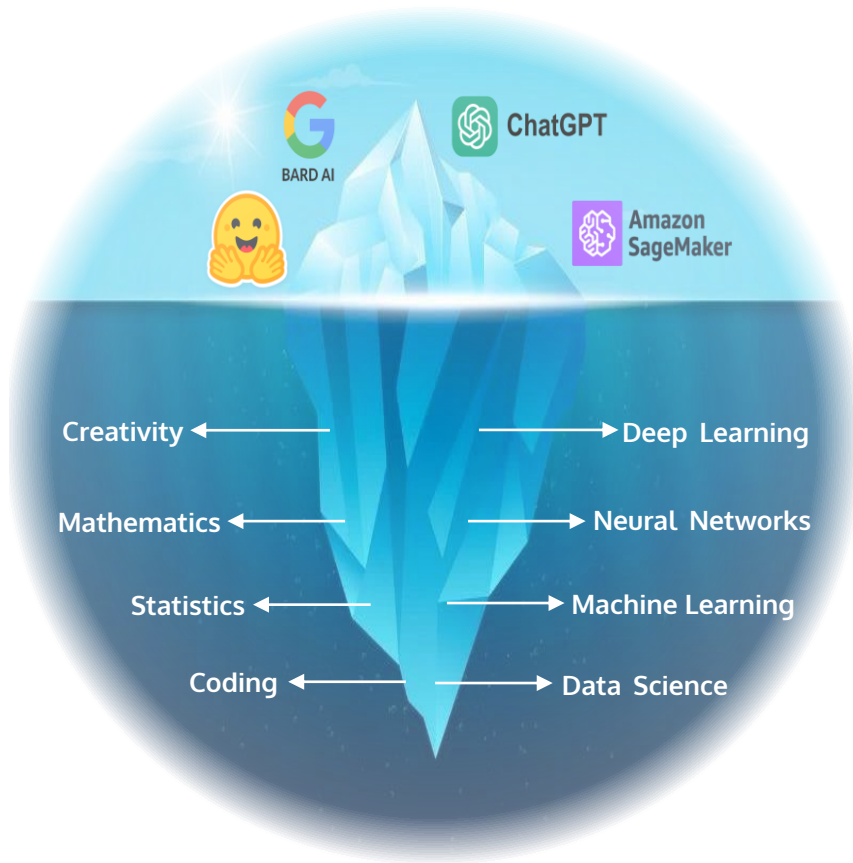
- Optimized coding skills
- Stimulates interest in otherwise dry subject
- Triggers innovation through imagination
- Comprehensive training resources



Visual demonstration of how AI actually works internally

## ❖ Relatable concepts: simplified & delightful

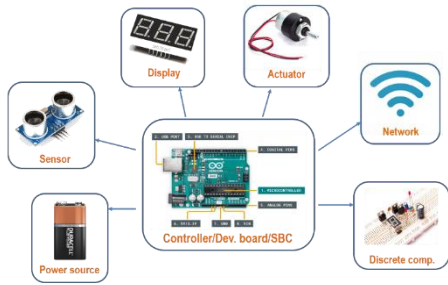
- Empathetic & supportive teaching style
- Step-by-step, holistic approach
- De-clutter the thoughts & inspire to seek further



## Learn to Leverage Generative AI:

- ❖ Different models and pipelines
- ❖ Prompt Engineering
- ❖ RAG Technique
- ❖ Langchain, Gradio for AI based apps
- ❖ Deploy your own chatbot
- ❖ Exciting NLP projects

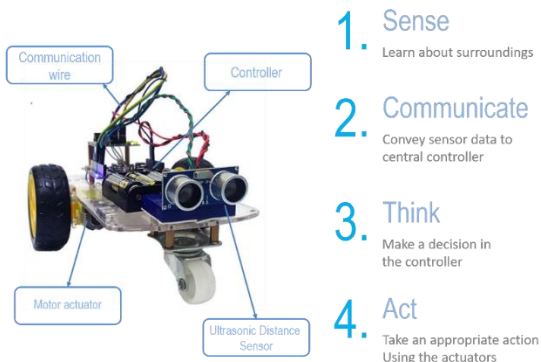
# THE QNODIAM ADVANTAGE – ROBOTICS & IOT



Robotics Components

❖ At Qnodiam, we boast our own:

- Development boards
- Managed IoT cloud platform
- Comprehensive training resources

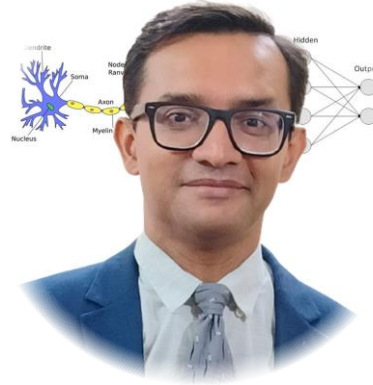


Experiments & Projects

❖ We inspire through hands-on projects:

- Comprehensive syllabus coverage
- Practical & lucid, help conceptualize
- Inspire beyond curriculum to excel in career

# AI & PYTHON FACULTY



**Anirban Chakrabarty, C.E.O.**

B.E.(Electronics), M.B.A. (Finance)

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## ❖ Empathetic, Dynamic, & Supportive

- 24 years of blue-chip experience
- Corporate trainer & excellent communications
- *Dynamo of energy, dependable & trusted for the job!*

– Vish Coosa, Morgan Stanley, U.S.A.

## ❖ Thorough Knowledge, Can Make Difficult Concepts in AI Seem Lucid

- Worked on multiple Corporate AI projects globally
- Elementary thinker, visualizes subject matter through clutter & noise
- Improved accuracy of AI models singlehandedly up to 99.8%
- *Super brain, the best guy to take care of all our AI implementation!*

– Government Client





# ROBOTICS & IoT FACULTY



## Bappaditya Debsingha, IoT Prod Manager

B.E.(J.U., Mechanical), M.B.A.(XLRI)

<https://www.youtube.com/c/wisethingz>

[https://www.instagram.com/bappa\\_wt](https://www.instagram.com/bappa_wt)

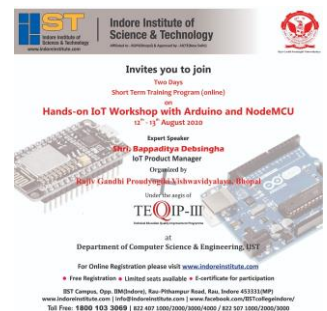
[www.wisethingz.com](http://www.wisethingz.com)

### ❖ Inspiring Mentor, Innovative & Entrepreneurial

- 18 years of global experience
- Trained hundreds of children & industry professionals
- IoT & Robotics workshops at institutions & corporates

### ❖ Industry Leading S.M.E. in the fields of

- Autonomous machines, automation, sensors & IoT driven BI
- Analytics dashboards, Cloud API gateways, integration to mobile apps





# AI & ROBOTICS BOOTCAMP: BYTE SPARK 2024



## ABSOLUTELY FREE!

2 hours of **Workshop** and 1 Hour **orientation**

At your facility if > 50 attendees  
at Anodiam conference Hall if < 50 attendees  
Online Webinar if < 10 attendees

All Teachers, Students and Guardians are welcome!

## GRAB BEFORE IT'S GONE!