teckybot™

Where future meets innovation

AI & ML

WORKSHOP PROPOSAL

About Us

Teckybot (Teck Team Solutions) brings a wealth of experience spanning a decade in Training and Development within the dynamic domain of **Industry 4.0.** Having successfully trained over **25,000+ students** from various educational institutions, the company offers a comprehensive suite of services, including internships, academic projects, technical workshops, and more. With a primary focus on **Emerging Technologies,** Teckybot aims to instill practical thinking and logical understanding in every student, particularly emphasizing the realms of **Robotics** and **Electronics.**

In the expansive landscape of **Industry 4.0**, our focus extends across pivotal domains, encompassing **Embedded Systems, Renewable Energy, IoT, Robotics, Drones, 3D Printing, EV Technology, and Artificial Intelligence. Teckybot (Teck Team Solutions)** stands out with an exclusive dedication to research and development. By fostering hands-on engagement, we empower the next generation with practical insights into cutting-edge technologies, ensuring they are well prepared for the dynamic challenges of the technological landscape. Additionally, our commitment to **STEM education** underscores our mission to cultivate a holistic learning environment, bridging the gap between theoretical knowledge and real-world application.

Founder Insights

In my entrepreneurial journey, I formed a team for comprehensive engineering training, expanding to seven experts and establishing **Atal Tinkering Labs (ATL)** for innovation. Simultaneously, workshops and internships bridged theoretical and practical knowledge. Evolving into an innovative product development firm, aligned with **"MAKE IN BHARAT,"** we earned **ISO 9001:2015 certification** in robotics. Seamlessly transitioning to Teckybot, our new platform emphasizes future connections, showcasing our dedication to continuous innovation at the forefront of technology, addressing diverse societal needs, and establishing meaningful connections for the future

- N.VENKATA REDDY
(Founder)

Our Vision

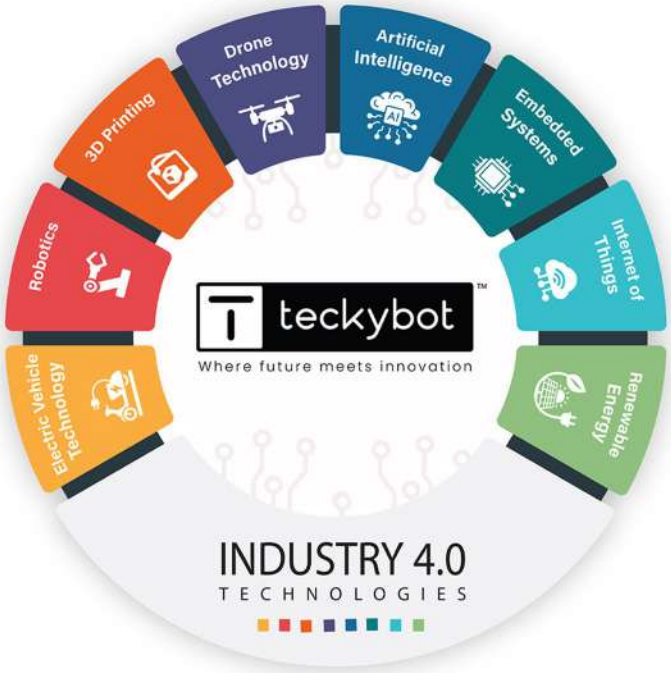
Empowering Tecky's with **INDUSTRY 4.0** Technologies where future meets Innovators

Our Mission

To integrate our platform in Education Institutes to make Industry Innovators for **Bharat**

Our Goal

To Create **ONE** million skilled Tecky's in Industry 4.0 by **2030**

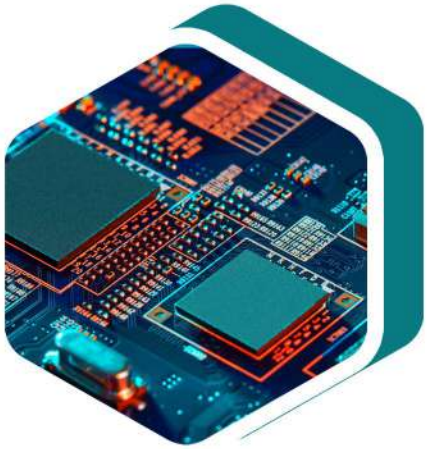


1. Artificial Intelligence Workshop

Artificial Intelligence (AI) and Machine Learning (ML) is one of the fastest emerging technologies. AI enables machines to simulate human intelligence and perform tasks that traditionally required human intelligence, while ML focuses on training machines to learn from data and improve their performance over time. In "AI and ML" workshop you can learn the fundamentals of AI and ML algorithms, explore real-world applications, and gain hands-on experience in building intelligent systems. Understand the ethical considerations and challenges in AI development

2. Embedded Systems Workshop

Embedded systems are computer systems designed to perform specific tasks within larger devices or machinery. They are called "Embedded" because they are integrated into a larger system and are dedicated to a specific function. Embedded systems are found in a wide range of everyday devices, such as smartphones, cars, appliances, industrial equipment, medical devices, and more.



3. Internet of Things Workshop

IoT is one of the world's fastest emerging technologies and has many possibilities as well as opportunities. A workshop on "IoT" gives the ideology of smart devices like Android Server based applications and will cover all basics of controllers used in IoT. With this Workshop, participants shall get to experience the control of different devices using web-based programming and Embedded Systems involved in it.

4. Robotics Workshop

Robotics is a multidisciplinary field involving the design, construction, programming, and operation of robots. A workshop on "Robotics" gives hands-on experience building and operating robots, and explore various applications of robotics in fields such as automation, Artificial Intelligence, and more. Unlock your creativity and ignite your passion for robotics in our immersive workshop

5. Drone Workshop

Drones are considered as one of the fastest emerging technologies, revolutionizing industries with their versatile applications, improving operational efficiency, and paving the way for advancements in fields such as aerial photography, surveillance, agriculture, delivery, and more. In "Drone" workshop you can learn the fundamentals of drone technology and operation. Gain hands-on experience in drone assembly, flight controls, and safety protocols.

6. 3D Printing Workshop

3D Printing is one of the world's fastest emerging technologies and has many possibilities as well as opportunities. A workshop on "3D Printing" gives the ideology about the production of functional or aesthetic prototypes, and will cover all Techniques and Applications of 3DPrinter. With this Workshop, participants will get experience in making their own Prototype and Working models.

7. Electric Vehicle Workshop

EV is one of the most promising and transformative technologies in the transportation sector. It offers a sustainable and eco-friendly alternative to traditional combustion engine vehicles, reducing emissions and dependence on fossil fuels. In "EV" workshop you can learn about the principles of electric vehicle technology, battery systems, charging infrastructure, and the environmental benefits of EV adoption. Get hands-on experience with EV components, understand the integration of renewable energy sources, and discover the future of clean mobility in our interactive workshop led by experts in the field.

8. PCB Workshop

PCB technology, which stands for Printed Circuit Board technology, plays a vital role in the field of electronics. It is the backbone of modern electronic devices and provides a platform for interconnecting and mounting electronic components. A PCB is a flat board made of non-conductive material, such as fiberglass or epoxy, with thin layers of conductive material, typically copper, laminated onto it.

AI (Artificial Intelligence)

Artificial Intelligence (AI) is a field of computer science dedicated to creating intelligent machines capable of human-like tasks. These tasks include understanding language, recognizing patterns, problem-solving, and learning from experience. AI encompasses subfields like **Machine Learning, Natural Language Processing (NLP)**, **Computer Vision**, and **Robotics.** Machine learning enables machines to learn from data and make predictions without explicit programming. **NLP algorithms** empower computers to understand, interpret, and generate **human language. Computer Vision** allows machines to analyze **Visual Information** from images or videos. Robotics merges **AI with Mechanical Engineering** to develop Intelligent Robots capable of autonomous or semi-autonomous physical tasks.

Neural Networks

Neural Networks process data through interconnected layers of nodes, mimicking the human brain's structure.

Machine Learning (ML)

ML enables computers to learn patterns from data, leading to predictive insights.

Deep Learning (DL)

Deep Learning uses complex neural networks to learn hierarchical representations of data.

Natural Language Processing (NLP)

NLP helps computers understand, interpret and generate human language, improving comminication.

Computer Vision (CV)

Computer Vision enables computers to analyse and understand visual information from images or videos

Large Language Models (LLMs)

LLMs power chatbots, content generation, language translation, and more, revolutionizing diverse industries with AI advancements.

2 DAYS WORKSHOP ON AI & ML

S.NO.	Topic	Duration
	DAY – 1	
1.	Introduction to AI	45 mins
2.	Human Intelligence vs AI	25 mins
3.	Artificial Intelligence Insights	30 mins
4.	Applications of AI	30 mins
5.	Activity AI in everyday magic	30 mins
6.	Ethics and AI	20 mins
	Lunch Break	
7.	Intro to Machine learning	30 mins
8.	Types of ML – Supervised Learning	30 mins
9.	Unsupervised and Reinforcement Learning	30 mins
10.	Hands on activities on Modules	30 mins
11.	Teachable Machine (Live Example)	30 mins
12.	Analysis of Supervised Learning	30 mins
	DAY – 2	
1.	Importance of Data in AI	30 mins
2.	Datasets – Data Storage – Data Visualization	30 mins
3.	Hands-on Predictive drawing with AutoDraw	30 mins
4.	Machine Learning – Image based training	30 mins
5.	Machine Learning – Sound based training	30 mins
6.	Machine Learning – Text based training	30 mins
	Lunch Break	
7.	Algebra and Probability in AI	20 mins
8.	Introduction Python IDE and Jupyter Notebook	20 mins
9.	Supervised Algorithms (Classification & Regression)	30 mins
10.	KNN Algorithm – Example - Code	40 mins
11.	Linear Regression – Example - Code	40 mins
12.	Robotic Hand Live example (Games)	30 mins

2 Days Workshop	60 Students	80 Students	100 Students
	Per Head- Rs.1000	**Per Head- Rs. 800**	**Per Head- Rs.700**

Benefits:

- Benefit from expert guidance provided by trained technical instructors.
- Experience hands-on learning through interactive demonstrations.
- Earn industry-recognized certification upon successful completion.
- Gain access to cutting-edge insights into AI technology.
- Explore career advancement opportunities in the field of Artificial Intelligence.

3 DAYS WORKSHOP ON AI & ML

S.NO.	Topic	Duration
	DAY – 1	
1.	Introduction to AI	45 mins
2.	Human Intelligence vs AI	25 mins
3.	Artificial Intelligence Insights	30 mins
4.	Applications of AI	30 mins
5.	Activity AI in everyday magic, Ethics and AI	50 mins
	Lunch Break	
6.	Intro to Machine learning	30 mins
7.	Types of ML – Supervised Learning	30 mins
8.	Unsupervised and Reinforcement Learning	30 mins
9.	Hands on activities on Modules	30 mins
10.	Teachable Machine (Live Example)	30 mins
11.	Analysis of Supervised Learning	30 mins
	DAY – 2	
1.	Importance of Data in AI	30 mins
2.	Datasets – Data Storage – Data Visualization	30 mins
3.	Hands-on Predictive drawing with AutoDraw	30 mins
4.	ML – Image based, Sound based & Text based trainings	90 mins
	Lunch Break	
5.	Algebra and Probability in AI	20 mins
6.	Introduction Python IDE and Jupyter Notebook	20 mins
7.	Supervised Algorithms (Classification & Regression)	30 mins
8.	KNN Algorithm, Linear Regression – Example - Code	80 mins
9.	Robotic Hand Live example (Games)	30 mins
	DAY – 3	
1.	SVM Classification & Regression Algorithm – Example – Code	80 mins
2.	Cats vs Dogs Supervised Learning Example	20 mins
3.	Data Collection and Pre-processing	20 mins
4.	Data Exploration and Visualization	30 mins
5.	Model Selection, Training, Evaluation	30 mins
	Lunch Break	
6.	Overview of ChatGPT and its Capabilities	30 mins
7.	Prompt Engineering	45 mins
8.	Practical usage of ChatGPT	45 mins
9.	AI Tools – Text, Image, PPT generation & Future Trends in AI	60 mins

3 Days Workshop	60 Students	80 Students	100 Students
	Per Head- Rs.1500	**Per Head- Rs.1200**	**Per Head- Rs.1000**

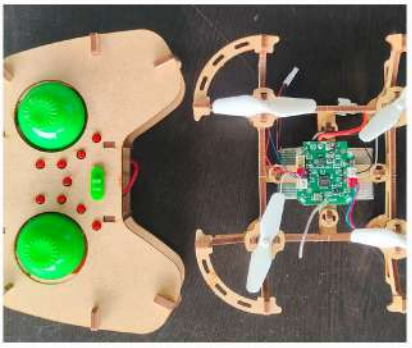
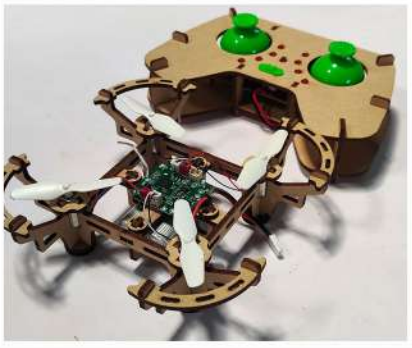
Pre-Requisites from Institution

- ✓ Depending on the workshop content, participants may need to bring their laptops or specified devices.
- ✓ Ensure participants have the necessary software installed or follow instructions for installation.
- ✓ Spacious hall with tailored seating and well-equipped laboratory provided.
- ✓ Availability of projector, screen, and microphone ensured.
- ✓ Access to high-speed internet facilitated throughout the workshop.
- ✓ Provision of at least three extension boards for device accommodation during hands-on practices.
- ✓ Two designated representatives for seamless coordination and assistance during the workshop.







https://www.instagram.com/teckybot/
https://www.linkedin.com/company/teckybot/
https://www.facebook.com/teckybot/
https://www.youtube.com/@teckybot23

OUR PRESENCE @

Visakhapatnam
ā-Hub (C.O),
AU Incubation Center,
Visakhapatnam,
Ph: 888861 22887

Vizianagaram
Branch office (B.O),
Vizianagaram,
Ph:: 7799911212

Rajahmundry
kokabhaskaramma
nagar, Rajahmundry,
Ph: 7799911213

Vijayawada
Branch office (B.O),
Vijayawada
Ph:: 7799911214

Nellore
Branch office (B.O),
Nellore,
Ph: 7799911215

Hyderabad
6th Floor, T-Hub (C.O),
Hyderabad,
Telangana,
Ph: 8886122886