



E-Vidya Intensive Advanced Learning Workshop Series

e-vidya.in

Breakthrough Learning in Deep Technologies

Supercharge your technology career with the E-Vidya Intensive Advanced Learning Workshops for global success in the 2020s

In Cooperation with Open-source Development and Learning Communities and Partners around the World

About the E-Vidya™ Workshop Series

- **Exclusively designed** intensive advanced learning workshops on selected deep technologies **to rule the world in the 2020s**
- Precise and lucid introductions to the **core concepts, models, algorithms, and techniques** of the subject, supplemented by **hands-on exposure** to the **tools, platforms, and APIs** most widely used in the industry for software and system development
- **Comprehensive curriculum** touching all key aspects of the subject, connecting the dots across disciplines
- Curated by **authentic expert knowledge** and **deep industry experience** of **best-in-class instructors**
- **List of available workshop topics overleaf** and at <https://e-vidya.in/workshops>
- Offered through **face-to-face classroom sessions** and instructor-led **live online webinar sessions**
- **Formats:** Concise deep dive sessions (8–10 hours total – comprising single day-long session or multiple short daily sessions), comprehensive workshops (40–50 hours total), customized workshops of flexible duration
- Longer duration workshops include hands-on software and practical solution development sessions

Who Should Attend and Why

- **Working technology professionals** in the industry and **engineering students** aspiring for industry careers that demand knowledge and skill in the workshop subject
- **Team leaders and managers in the industry** leading projects related to or affected by the workshop subject
- **Senior managers and business leaders** seeking a rapid comprehensive overview of the workshop subject
- **Employers:** Proactively re-skill your staff and leaders in technologies that will dominate the 2020s. Strategically safeguard your business from skill obsolescence and disruption in a fast-changing technology landscape

Certification, Appraisal, and Follow-up Learning

- Certifications for successful completion of *E-Vidya Intensive Advanced Learning Workshops* are awarded for select workshops in partnership with leading partner academic or industry institutions
- (Optional) Self-appraisals, expert appraisals, and independent skill evaluations for select subjects
- Continued access to online E-Vidya community forums, and follow-up learning and career evolution resources

About Our Partners

- **E-Vidya** partners with a variety of Indian and global academic and industry organizations and experts to maximize the quality of the E-Vidya offerings
- E-Vidya contributes to high-impact open-source projects and resources relevant to E-Vidya offerings
- More information at <https://e-vidya.in/partners>

About TISRA™ and E-Vidya™

- **E-Vidya** is a registered trademark of **Terra Incognitus Systems Research Alliance Pvt Ltd (TISRA™)**
- Led by distinguished IIT and IISc alumni with decades of research and development experience in leading global computer and communication technology corporations
- Researches deep technologies, advanced systems and software, cool programming languages, compilers and operating systems, and exciting applications
- Builds specialized systems and software solutions using deep technologies for hard business problems
- Offers intensive advanced learning platforms, contents, and tools based upon world's best open-source projects
- Provides trainings specifically designed for technology professionals and students in India to empower them with winning deep technology skills for survival and thriving in the 2020s
- More information at <https://tisra.in>

List of E-Vidya Intensive Advanced Learning Workshops overleaf

Brought to you by

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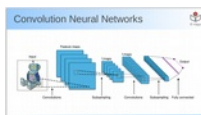
List of Workshops

Artificial Intelligence & Machine Learning	<ul style="list-style-type: none"> Comprehensive overview, mathematics and computer science background Models and algorithms for AI and ML, neural networks and deep learning Applications, practical problem-solving using AI and ML, challenges and issues Hands-on programming and solution development, careers in AI and ML
Quantum Computing	<ul style="list-style-type: none"> Overview of mathematics and physics of quantum computing Quantum computing applications: Cryptography, AI, complex systems modeling State of practical quantum computing in the industry
Block Chain Technology & Cryptocurrencies	<ul style="list-style-type: none"> Concepts, mathematics and computing background, hash functions, distributed ledgers, block chain algorithms, applications of block chain technology Cryptocurrencies: concept, overview, state of the industry Hands-on problem solving: build your own block chains and cryptocurrencies
Functional Programming	<ul style="list-style-type: none"> Comprehensive overview of mathematics and computer science background Overview and comparison of popular Functional Programming languages Hands-on programming and solution development using select FP languages
Advanced Programming in Functional Programming Languages	<ul style="list-style-type: none"> Comprehensive hands-on programming in one of the following Functional Programming languages – Haskell, Ocaml, Rust, Erlang, Clojure
Digital System Design Using High Level Hardware Description Languages	<ul style="list-style-type: none"> Theory and practice of modern digital system design and high-level HDLs Overview of popular High Level Hardware Description Languages Hands-on system design and programming using select high level HDLs

List of scheduled workshops open for registration at any given time is available at <https://e-vidya.in>

Format and Duration of Workshops

Condensed – single day-long session or multiple short daily sessions (8–10 hours total) Live online or face-to-face classroom	Rapid introduction and deep dive into the core concepts of the subject with condensed overview of key models, algorithms, applications, challenges, tools, and problem solving methods and techniques
Comprehensive – multiple daily sessions (40–50 hours total) Live online or face-to-face classroom	Concepts, theoretical and mathematical background, detailed discourse on key models, algorithms, applications, challenges, tools, APIs, hands-on problem solving, solution development, and programming, hardware acceleration
Flexible – Custom Duration (30–120 hours over multiple days) Live online or face-to-face classroom	Comprehensive course covering customized amounts of theory and practical problem solving including hands-on programming using the most widely used APIs and software tools, APIs, and libraries, and hardware acceleration



More about E-Vidya Intensive Advanced Learning Workshops overleaf

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