



DAYANANDA SAGAR
UNIVERSITY

BENGALURU • INDIA

Integrated DSU AI Innovation Ecosystem

Anchored by AI Makers Space

◆ APPLIED AI • RAPID PROTOTYPING • DEPLOYMENT

AI Makers Space

A compute-first innovation studio turning advanced AI research into deployable, real-world systems.

B200

NVIDIA DGX CLASS

7+

INTEGRATED COES

WKS

IDEA TO MVP

NVIDIA DGX B200

Rapid Prototyping

Cross-CoE Collaboration

Startup Enablement



A hub for rapid prototyping, deployment and scaling of AI solutions



AI Makers Space at DSU is a cutting-edge hub for rapid prototyping, deployment and scaling of AI solutions powered by advanced GPU infrastructure including NVIDIA DGX systems — a high-performance environment for applied AI, translational research and multi-institutional collaboration.

Positioned as DSU's application and deployment hub, it converts advanced models into usable systems, reusable AI assets and field-ready solutions — working in concert with DSU's Electronics, Mechanical, AR & VR, Cybersecurity, AI & Robotics and Data Science & Engineering centres.

◆ CORE CAPABILITIES



Rapid prototyping cycles

Low-code, no-code and full-stack AI applications aligned to institutional and societal problem statements.



Reusable digital components

UI components, prompt templates, APIs and microservices shared across projects, labs, departments and partner ecosystems.



Student & community-led solutions

Concepts turned into deployable MVPs, products, services and translational research outputs.



AI application engineering

Document intelligence, workflow automation, conversational systems, analytics portals and decision-support tools.



AI collaboration layer

Connects DSU's Centres of Excellence — data, security, robotics, electronics, mechanical and AR/VR — into one pipeline.



Powered by NVIDIA DGX B200 systems

B200

AI Makers Space is envisioned as a **compute-first innovation studio** where NVIDIA DGX B200-class systems enable high-throughput model development, fine-tuning, synthetic data generation, multimodal experimentation and scalable inference workflows for real-world deployments. This class of infrastructure lets DSU support larger models, shorter experimentation cycles, collaborative benchmarking and faster transition from lab research to production-ready applications.

◆ DGX-POWERED CAPACITY STRENGTHENS FOUR OUTCOMES

- **Research acceleration**
Rapid training, evaluation and optimization of AI models.
- **Cross-institute collaboration**
Shared compute, common toolchains and benchmark-ready environments.
- **Multi-CoE enablement**
Serving as the application and compute layer for data, cybersecurity, robotics, electronics, mechanical and immersive systems workstreams.
- **Innovation visibility**
Demonstrable prototypes, stakeholder showcases, hackathons, startup engagement and industry-academia projects.

Support for DSU Centres of Excellence

AI Makers Space amplifies the larger DSU ecosystem by functioning as the application, integration and demonstration layer for AI/ML workflows across all DSU Centres of Excellence.



Data Science & Engineering

Converts AI-ready data pipelines, analytics and dashboards into stakeholder-facing solutions.



Cybersecurity

Embeds secure-by-design practices, trusted APIs and compliant deployment workflows into prototypes and products.



AI & Robotics

Packages core models, agents and robotics outputs into usable interfaces, controls and service applications.



Electronics Makers Space

Integrates edge devices, sensors, cameras and IoT kits with AI apps and inference pipelines.



Mechanical Makers Space

Connects fabricated systems, kiosks, enclosures and human-machine interfaces to intelligent applications.



AR & VR

Extends AI applications into immersive training, simulation and interactive visualization experiences.



AI Makers Space

Acts as the central application engineering, demo and deployment acceleration environment.

A university-scale AI innovation platform

AI Makers Space is designed to support joint innovation with other institutes, industry, startups and research organizations through co-development, mentoring, translational research and shared sandbox-style experimentation. Collaboration avenues span solution development, validation, training, policy-oriented work, startup acceleration, outreach and ecosystem building.

It becomes a university-scale AI innovation platform that can host innovation cohorts, co-create benchmark datasets and evaluation suites, support interdisciplinary projects and develop reusable assets for wider adoption.

◆ ECOSYSTEM INTEGRATION

DGX-powered high-performance computing

Rapid prototyping to deployment in weeks

Cross-disciplinary collaboration across CoEs

Startup incubation & industry partnerships



Collaborates with AI & Robotics, Data Science, Cybersecurity, AR/VR, Electronics and Mechanical Makers Spaces to deliver full-stack AI innovation at enterprise scale.

Key deliverables

- ✓ AI Innovation Labs & Fellowships.
- ✓ Reusable AI assets & APIs — UI kits, prompt libraries, connectors and workflow templates.
- ✓ Cross-CoE integration across data, security, robotics, electronics, mechanical and AR/VR systems.
- ✓ Startup ecosystem enablement through incubation and industry partnerships.
- ✓ Rapid AI application prototypes for governance, healthcare, education, agriculture, urban systems and enterprise workflows.
- ✓ Deployable MVPs emerging from student and partner innovation labs.
- ✓ Shared infrastructure for hackathons, accelerators, training programmes and research demonstrations.
- ✓ A visible DSU showcase for high-performance AI innovation powered by NVIDIA DGX B200 systems.



DGX

Together, these deliverables build **a visible DSU showcase for high-performance AI innovation** — powered by NVIDIA DGX B200 systems and integrated Centre-of-Excellence collaboration, turning research outputs into reusable, field-ready AI assets.

Stakeholder value



University Leadership

The platform provides a visible, scalable anchor for research, talent development and institutional partnerships.



Faculty & Researchers

It shortens the path from model development to experimentation and deployment.



Students, Startups & Collaborators

It creates a high-end environment to build, test and demonstrate applied AI systems with real interdisciplinary support.

◆ ECOSYSTEM INTEGRATION SNAPSHOT



DGX-powered high-performance computing, rapid prototyping to deployment in weeks, cross-disciplinary collaboration across CoEs, and startup incubation & industry partnerships — delivered as one integrated innovation platform.



A high-performance innovation environment for applied AI, rapid prototyping, translational research and multi-institutional collaboration — converting advanced models into field-ready solutions.

From applied research to deployable AI systems



01

Rapid AI Prototyping

- Document Intelligence Systems
- Conversational AI & Chatbots
- Predictive Analytics Dashboards
- Workflow Automation Tools



02

Innovation Labs & AI Fellows Program

- Student & researcher-led solution labs
- Real-world problem solving with deployable MVPs
- Hands-on: Generative AI, RL, Multimodal AI



03

Reusable AI Assets

- Prompt engineering libraries
- Microservices & APIs
- UI/UX AI components
- Pre-trained & fine-tuned models



04

Cross-CoE Solution Integration

- Edge devices (IoT, sensors)
- Robotics systems
- AR/VR immersive interfaces



05

Startup & Innovation Ecosystem Enablement

- AI startup incubation
- Hackathons & innovation challenges
- Industry-academia co-development



06

Research & Innovation Impact

- Generative AI
- Precision AI Systems
- Explainable AI (XAI)



07

Real-world Deployment Across Domains

- Healthcare
- Financial Technologies
- Law
- Smart Cities
- Agriculture
- Education



08

Capacity Building & Training

- AI Certification Tracks
- Faculty Development Programs (FDPs)
- Executive Training
- Student Innovation Cohorts

◆ BUILD WITH US

Ready to build the next AI breakthrough?

Partner with AI Makers Space for compute-backed prototyping, translational research and deployable AI systems — built with DSU's integrated Centres of Excellence.

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INTEGRATED COEs

8

SOLUTION AREAS

WKS

IDEA TO MVP



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