

Kranti Ingale Ph.D. Scholar (CSE)

Indian Institute of Technology Madras (India)

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Education

Program	Institution/Board	%/CGPA	Year
<i>Ph.D</i>	Indian Institute of Technology Madras	9.25	2022-Present
<i>M.Tech.</i>	Indian Institute of Technology Kharagpur	8.17	2015-17
<i>BE</i>	Pune University	72.93%	2011-14
<i>Diploma</i>	Government Polytechnic	84.07%	2008-11

Work Experience

- Assistant Professor:** Vishwakarma University Pune - Maharashtra Apr'22-Jun'22
- Assistant Professor (NPIU/MHRD)**
 - Ujjain Engineering College, Ujjain - Madhya Pradesh Sep'18-Sep'21
 - Birla Institute of Technology, Mesra, Ranchi - Jharkhand Jan'18-Aug'18

Projects

- GPUBooker: Efficient Parallel Application for Multi-Center Facility Room Booking*** Mar-Apr'23
(GPU Programming) IIT Madras
 - Implemented GPU-accelerated application to request facility rooms in multiple computer centers.
 - The application handles race conditions, ensures consistency, and provides statistics on successful and failed bookings.
- DataPulse: Data Prefetcher for LLC using ChampSim Simulator*** Oct-Nov'22
(Computer Architecture) IIT Madras
 - Used weighted-graph approach for building graphs based on cache misses.
 - Achieved IPC of 0.93 which is similar to next_line prefetcher.
- Word Highlighting and reviewing system for Dyslexia*** Jul'16-Apr'17
(M.Tech / Faculty: Prof. Anupam Basu) IIT Kharagpur
 - Built the system for dyslexic children to help them read and spell the words correctly.
 - Developed an algorithm to count number of syllable in words and performed Syllabication.
- Privacy-Preserving Mining for outsourced Transaction Databases*** Jul'13-May'14
(BE / Faculty: Prof.S. Nandgaonkar) Pune University
 - Implemented research paper on outsourcing data mining tasks while protecting corporate privacy using JAVA.

Achievements/Awards

- Secured 15th rank out of 1145 in *Technical Education Quality Improvement Programme (TEQIP)- III* conducted by NPIU & MHRD (2018).
- Received the *Award for Academic Excellence* from Indus Foundation, a Global Education Summit ,Hyderabad (2013).
- Received the *Award for Academic Excellence* from Builder Association Of India,Center Baramati, Dist-Pune (2013).
- More than 11 Keynote talks delivered on *Let's Crack the GATE* in different colleges (SRM, BATU,HBTU).

Courses

- GPU Programming
- Computer Architecture
- Digital Systems & Testable Design
- Security in Cyber-Physical Systems

Technical Skills

- Programming Language: C, C++, Java, Python
- Architectural Simulators