

# MAYANK RAMNANI

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## EDUCATION

<b>Indian Institute of Technology Indore</b> <i>Ph.D. in Computer Science and Engineering</i>	<i>Aug. 2022 - Present</i> <i>CPI: 8.71/10</i>
<b>Shri G.S. Institute of Technology and Science, Indore</b> <i>M.Engg. in Computer Science and Engineering</i>	<i>Aug. 2017 - Aug. 2021</i> <i>CPI: 8.35/10</i>
<b>Lakshmi Narain College of Technology and Science, Bhopal</b> <i>B.Engg. in Computer Science and Engineering</i>	<i>Aug. 2010 - Jul. 2014</i> <i>CPI: 7.82/10</i>

## EXPERIENCE

<b>Shri G.S. Institute of Technology and Science (SGSITS)</b> <i>Assistant Professor, Computer Science and Engineering</i> <ul style="list-style-type: none"><li>– Course coordinator and instructor for several UG and PG level courses.</li><li>– Courses taught: Concepts of OOP (using Java), C Programming, Android Development.</li></ul>	<i>Sept. 2021 - June. 2022</i> <b>Indore, India</b>
<b>Indian Institute of Management (IIM) Indore</b> <i>Academic Associate under Prof. Shubhamoy Dey (Information Systems Area)</i> <ul style="list-style-type: none"><li>– Assisted Prof. Dey in subjects like Spreadsheet Modeling and Machine Learning.</li><li>– Curated course material, evaluated students and managed overall logistics for the courses.</li></ul>	<i>Dec. 2019 - Sept. 2021</i> <b>Indore, India</b>
<b>Deloitte Support Services (Offices of the US, India)</b> <i>Analyst - Global Technology Services</i> <ul style="list-style-type: none"><li>– Worked on Microsoft BI Stack for ETL/Data warehousing for Backend operations and maintenance activities for an in-house Dashboard based BI product used internally by Deloitte LLP and associated member firms.</li></ul>	<i>Jul. 2019 - Nov. 2019</i> <b>Hyderabad, India</b>
<b>Cognizant Technology Solutions (Pvt.) Ltd.</b> <i>Software Test Analyst (Quality Engineering and Assurance)</i> <ul style="list-style-type: none"><li>– Performed regression and timestamp testing to check the robustness of application functionalities.</li><li>– Actively involved in regular follow-ups with all the stakeholders.</li><li>– Coordinated with the onsite development team for timely resolution of issues.</li></ul>	<i>May. 2015 - Jun. 2016</i> <b>Pune, India</b>
<b>InnoEye Technologies</b> <i>Software Engineer (Java)</i> <ul style="list-style-type: none"><li>– Incharge of Backend development using REST API, MySQL/MongoDB and Hibernate as ORM.</li><li>– Developed an application for an Indian Telecommunications Client for coordination among involved personnel.</li></ul>	<i>Oct. 2014 - Dec. 2014</i> <b>Indore, India</b>

## PROJECTS

<b>Developing a Network Digital Twin for virtualized RANs in 5G and Beyond</b> <i>Supervisor: Dr. Sidharth Sharma (Dept. of Computer Science and Engineering, IIT Indore)</i> <ul style="list-style-type: none"><li>– working on creating a network digital twin (NDT) for the 5G network that interacts with the 5G network and captures data used to train AI/ML models running within the NDT.</li><li>– Working in phases, starting from designing an optimization framework for dynamic functional placement in vRANs.</li><li>– formulated the problem as an Integer Linear Programming framework to maximise service providers' profit by efficiently allocating virtualized network functions while ensuring optimal resource utilization and centralization levels.</li><li>– Saad Ahmed, <b>Mayank Ramnani</b>, Sidharth Sharma, "SliAvailRAN: Availability-Aware Slicing and Adaptive Function Placement in Virtualized RANs", submitted to International Conference On The Design Of Reliable Communication Networks (DRCN 2024) [Under Review].</li></ul>	<i>June 2023 - Present</i>
<b>RL based DVFS for Power Management in Multicore Systems</b> <i>Supervisor: Prof. D.A. Mehta (Dept. of Computer Engineering, SGSITS, Indore)</i> <ul style="list-style-type: none"><li>– Designed a framework to minimize power dissipation, without performance degradation of overall power saving.</li><li>– The framework takes as input task utilization, memory load, latency and read/ write access demands and provides optimal frequency to minimize dynamic power.</li><li>– <b>Mayank Ramnani</b>, D.A. Mehta, "Reinforcement Learning Based DVFS Framework for Power Management in Multicore Systems", Journal of Harbin Engineering University [Under Review].</li></ul>	<i>Jul. 2018 - Jun. 2021</i>
<b>Review Mining</b> <i>Supervisor: Mr. Nikesh Tiwari (Dept. of I.T., LNCTS, Bhopal)</i> <ul style="list-style-type: none"><li>– Developed a web portal with a Text Mining application for analyzing customer reviews of a car product based on keywords and impact parameters, producing accurate overall ratings.</li></ul>	<i>Aug. 2013 - May 2014</i>
<b>Image Morphing</b> <i>Supervisor: Mr. Atul Gupta (Dept. of I.T., LNCTS, Bhopal)</i> <ul style="list-style-type: none"><li>– Designed a reliable Image Morphing software application using J2SE Technology that takes source and destination images as inputs and morphs them using cross- dissolve technique to generate interpolated in-between images as the output(s).</li></ul>	<i>Jun. 2012 - Dec. 2012</i>

## EXTRACURRICULAR ACTIVITIES & ACHIEVEMENTS

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- **Student Placement Manager**, Training and Placement Cell, IIT Indore, Nov. 2022 - present
- **Research Poster Presentation**, Poster on “Data Driven Delay Estimation in 5G Virtualized RAN using Graph Neural Networks”, PhD Summer School, TMA Conference 2023, Naples, Italy.
- **Runner up**, Doodle up, IIT Indore, Mar. 2023
- **Winner**, Speak India, IIM Indore, Jan. 2023
- **Co-ordinator**, Research Symposium, IIT Indore, Mar. 2023
- **Runner up**, Word Wars 3.0, Sep. 2022
- **Runner up**, Techno Samvad, IIT Indore, Sep. 2022