

Kumar Anurag

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Introduction

I am a PhD student at the University of New Mexico, focusing on Reservoir Computing and VR to foster trust in autonomous systems. I use VR simulations, data-driven approaches, and robotics (e.g., Crazyflie drones, Meta Quest Pro headsets) to enhance human-machine interaction. Now, I'm expanding these methods with LANL's SmartSensors suite to tackle large-scale healthcare data, bringing advanced AI and human-centered design together.

Education

Ph.D.	University of New Mexico , Mechanical Engineering Department, <i>Albuquerque, NM, US</i>	Aug 2024 – May 2029
	<ul style="list-style-type: none"> • Currently pursuing Doctor of Philosophy (Ph.D.) in Controls & Machine Learning • Optimization and Estimation Lab 🔗 • GPA: 3.5/4.0 • Coursework: Neural Networks, Dynamic Systems Analysis and Design, etc. 	
M.Tech.	Birla Institute of Technology and Science, Pilani , <i>Rajasthan, India</i>	Aug 2021 – Dec 2023
	<ul style="list-style-type: none"> • Earned Master of Technology (M.Tech.) degree in Data Science and Engineering • GPA: 7.78/10.00 • Coursework: Data Mining, Big Data Systems, Deep Learning, Stream Processing and Analytics, etc. 	
B.Tech.	Guru Gobind Singh Indraprastha University , <i>Delhi, India</i>	Aug 2016 – Sep 2020
	<ul style="list-style-type: none"> • Earned Bachelor of Technology (B.Tech.) degree in Computer Science and Engineering • GPA: 8.77/10.00 • Coursework: Applied Mathematics, Applied Physics, Computer Organization and Architecture, Computer Graphics and Multimedia, Data Structures and Algorithms, etc. 	

Experience

Tata Consultancy Services (TCS) , Automation Lead, System Administrator, <i>Full-time</i>	Hyderabad, India
<ul style="list-style-type: none"> • Spearheaded multiple projects, including Solarwinds Ticket Analyzer (leveraging Machine Learning), Oracle Database End-to-End Patching Automation, and the SQL DB Password Reset Portal. • Conducted comprehensive training sessions for both on-site and offshore clients, demonstrating the implementation of AI-powered models, resulting in significant reductions in manual effort and cost savings for the client. • Awarded Winner of Info-Security Fest 2023 held at the organization's premises. 	Oct 2020 – Jul 2024
CampK12 , Coding Instructor, <i>Part-time</i>	Remote
<ul style="list-style-type: none"> • Delivered courses in Python Core, Python Advanced, Virtual Reality (HatchXR), The AI Playground (JS), and MIT App Inventor for Android app development. • Contributed to curriculum development by designing a new Data Structures course using Python. • Recognized as Best Performer for receiving the highest parent feedback across 	Jun 2020 – Jun 2022

multiple demo sessions.

Honors & Awards

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| Star of the Month Award , by TCS | Jul 2024 |
| <ul style="list-style-type: none">• Recognized with the Star of the Month award for developing a rapid automation solution for the SQL Accounts DB Password Reset Portal, significantly reducing customer incident volume.• Certificate link 🔗 | |
| Kubernetes Badge , by Google | Nov 2023 |
| <ul style="list-style-type: none">• Earned the 'Deploy to Kubernetes in Google Cloud' skill badge for successfully demonstrating expertise in deploying applications across hybrid and multi-cloud environments.• Certificate link 🔗 | |
| Contextual Master Award , by TCS | Jul 2023 |
| <ul style="list-style-type: none">• Recognized as a Contextual Master at TCS for developing end-to-end AI-driven automation solutions that enhanced accuracy, reduced manual effort, and delivered significant client savings.• Certificate link 🔗 | |
| Smart India Hackathon Winner , by Government of India | Mar 2018 |
| <ul style="list-style-type: none">• Winner of Smart India Hackathon 2018 as part of Team Embers Tech for developing a centralized hospital management system.• Certificate link 🔗 | |
| Best Research Paper Award , by GGSIP University | Feb 2018 |
| <ul style="list-style-type: none">• Awarded Best Paper for "Effects of Demonetization on Digital Banking" at the National Conference on Demonetization: Demystified, organized by the School of Management, Delhi Technical Campus, GGSIP University.• Certificate link 🔗 | |
| Best PPT Presentation , by GGSIP University | Mar 2017 |
| <ul style="list-style-type: none">• Secured 1st position in the PPT Presentation event at the Annual Fest "Vikiran" 2017, organized by Delhi Technical Campus, GGSIP University.• Certificate link 🔗 | |
| Certificate of Academic Excellence , by GGSIP University | Mar 2017 |
| <ul style="list-style-type: none">• Awarded Certificate of Academic Excellence for securing 3rd position at the institute level in the university examination for B.Tech (CSE) during the academic session 2016-17.• Certificate link 🔗 | |

Publications

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| Proactive Server Resource Management using RNN and LSTM Deep Learning AI Models , IJARI | Jun 2023 |
| <i>K. Anurag, Dr. A. Vijayalakshmi</i>
10.51976/ijari.1122304 🔗 | |
| JavaScript Book , Amazon | Nov 2020 |
| <i>K. Anurag</i>
ASIN: B08PDQZ1SF 🔗 | |

Python Book, Amazon

Mar 2020

K. Anurag

ASIN: B086BD1CN7 

Skills

Languages: C, C++, Python, C#, SQL, JavaScript, PowerShell, Bash

Technologies: .NET, Microsoft SQL Server, XCode, Unity-3D

Soft Skills: Leadership, Problem Solving, Team Player, Communication Skills

Exam Scores

GRE: Scored 328/340

Oct 2023

Microsoft Technology Associate (MTA) Exam: Scored 95%

Jul 2018

References

Dr. Wenbin Wan , Assistant Professor, University of New Mexico

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Declaration

- I hereby declare that all the facts mentioned above are accurate, and I take full responsibility for their accuracy.



Kumar Anurag
Albuquerque, Feb 27, 2025