Nikhil Kumar Jangamreddy
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ACADEMIC DETAILS

Examination	University/Board	Institute	Year	CPI/%
Doctor of Philosophy:	*Computer Science and Engineering*			
Doctorate	UQ, IIT Delhi	UQ, IIT Delhi	2024	9.0/10.0
Post Graduate Specialization:	*Computer Science and Engineering*			
Post Graduation	IIT Ropar	IIT Ropar	2020	9.1/10.0
UnderGraduate Specialization:	*Computer Science and Engineering*			
UnderGraduation	JNTU Ananthapuram	Sree Vidyanikethan,Tirupati	2017	83.31/100
Intermediate/+2	BIE, Andhra Pradesh	Sri Chaitanya, Vijayawada	2013	95.50/100
Matriculation	SSC, Andhra Pradesh	Gowtham School, Gudivada	2011	90.83/100

FIELDS OF INTEREST

- Computer Vision, Autonomous Driving.

LINKS

- **Github :** `https://github.com/jnikhilreddy`
- **Google scholar :** `https://scholar.google.com/citations?user=3xp0E04AAAAJ&hl=en`

TECHNICAL SKILLS

- **Languages** (C, C++, Java),**Database** (MySQL) **Script** (Python, Javascript, Shell), **Tools** (LaTeX).

ACADEMIC ACHIEVEMENTS

- **Best poster award** at the **Australasian Joint Conference on Artificial Intelligence, AJCAI 2023.**
- **Core contributer** to the successful grant application for the **Teaching Innovation Grant (TIG)** at the University of Queensland.
- Panelist at the student experiences in Generative AI event organized by ITALI, UQ.
- Felicitated **Institute Silver Medal** for attaining highest CGPA among Master of Technology Computer Science and Engineering, IIT Ropar.
- Secured All India Rank **398** in GATE Computer Science 2018 among 107 thousand Candidates.
- Co-Organiser of Computer Vision Talks – a paper reading group that aims to discuss state-of-the-art research in Computer Vision. Link
- One among **the 37 finalists** in the Qualcomm Innovation Fellowship Finals 2023.Link
- One among **top 20** participants at Summer school in Machine learning, IIIT Hyderabad.Link
- Selected among the **250** students for Google Research week 2023 organized by Google (Jan 2023).
- Selected among the **155** Ph.D students for the Google Research Graduate Symposium organized by Google (Apr 2021).
- Selected among the **20** students to present their research work in ACM India Academic Research and Careers for Students Symposium (Feb 2023).
- Currently Ranked **837** among 38k competitive programmers in Open Kattis - Official platform for ACM ICPC.
- Secured **5th** Position in Smart India Hackathon under Department of Bio-Technology Conducted by Government of India.

MAJOR PROJECTS AND SEMINAR

- **Column subset selection problem.**
  (Guide:Dr. Amitabha Bagchi, IIT Delhi , Jan'21 - Jun'21)
- **Model agnostic approaches for explaining classifier decisions.**
  (Guide:Dr. CK Narayanan, IIT Ropar , Jul'19 - Jun'20)
- **Implementation of GANs and VAEs.**
  (Guide:Dr. CK Narayanan, IIT Ropar , Jul'19 - Dec'19)
- **Explainability in Copy Move Forgery Detection.**
  (Guide:Dr. Ramanathan subramanian, IIT Ropar , Jul'19 - Dec'19)
- **Visualising and Understanding Relationship between K-Means Clustering and PCA.**
  (Guide:Dr. CK Narayanan, IIT Ropar , Jul'19 - Dec'19)
- **Implementing Neural Networks and CNN from Scratch.**
  (Guide:Dr. CK Narayanan, IIT Ropar , Jul'19 - Dec'19)
- **Grid File and Grid Array Implementation.**
  (Guide: Dr. Vishwanath Gunturi , Aug'18 - Dec'18)
- **Implementation of KD-Tree and Quad Tree.**
  (Guide: Dr. Vishwanath Gunturi , Aug'18 - Dec'18)
- **Airbnb New Travel Destination Prediction - Kaggle.**
  (Guide: Srikanth Verma Chekuri, Applied AI Course , Jan'18 - July'18)

CORE A/A* PUBLICATIONS

- Master of All: Simultaneous Generalization of Urban-Scene Segmentation to All Adverse Weather Conditions - Paper Accepted at ECCV 2022 (CORE A*). Paper link
- Towards Domain-Aware Knowledge Distillation for Continual Model Generalization—Paper accepted at WACV 2024 (CORE A).Paper link

OTHER PUBLICATIONS

- MAIRE - A Model Agnostic rule extraction procedure for explaining classifiers - Paper Accepted at CD-MAKE 2021. Paper link
- Web-based Gesture Recognition System for Controlling Heterogeneous IoT Devices Using Deep Learning - Paper Accepted at IEEE COMSNETS 2019.Paper link

UNDER REVIEW

- Cross-Domain Generalization in Regression via Feature-Label Decoupling (under submission at a CORE A* conference)
- AI-Assisted Marking: Functionality and Limitations of ChatGPT in Written Assessment Evaluation (under submission at an education technology journal)

RELEVANT COURSEWORK

- Mathematics for Data Science (IIT Delhi) (Grade: 10/10)
- Advanced Computer Vision (IIT Delhi) (Grade: 8/10)
- MTech Thesis (Explainability in Artificial intelligence) (IIT Ropar) (Grade: 9.43/10)
- Machine learning (IIT Ropar) (Grade: 10/10)
- Artificial Neural Networks (IIT Ropar) (Grade: 8/10)
- Computer Vision (IIT Ropar) (Grade: 8/10)
- PG Software lab (IIT Ropar) (Grade: 10/10)
- Theoretical Computer science (IIT Ropar) (Grade: 9/10)

TEACHING ASSISTANCE

- Artificial Intelligence for Cyber Security (The University of Queensland).
- Data Structure and Algorithms (IIT Ropar).
- Tinkering Lab (IIT Ropar).
- Mathematics for computer science (IIT Ropar).
- Machine learning (IIT Ropar).

CONTACT REFERENCES

- Prof. Chetan Arora, Department of Computer Science and Engineering, IIT Delhi. Email: chetan@cse.iitd.ac.in
- Dr. Mahsa Baktashmotlagh, Senior Lecturer, UQ, Australia. Email: m.baktashmotlagh@uq.edu.au
- Dr. CK Narayanan, Associate Professor, Data Science Department, IIT Palakkad. Email: ckn@iitpkd.ac.in