CONTACT

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🏠 **Old Dominion University, Norfolk, Virginia, USA**

https://scholar.google.com/citations?hl=en&user=MbQDa7wAAAAJ

𝕏 **https://twitter.com/mk344567**

EDUCATION

Old Dominion University, Norfolk, Virginia, USA

- **PhD in Computer Science(Aug 2021 - Present)**

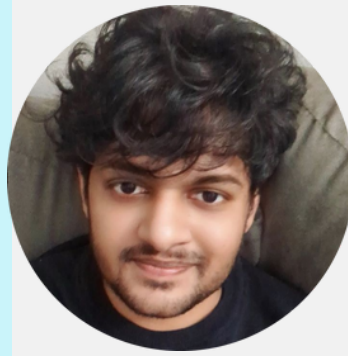**Manipal Institute of Technology, karnataka, India**

- **M-Tech in Computer Science (2017-2019)**
- **B. Tech: Information Technology (2013-2017)**

Narayana Junior College, Hyderabad, India

- **11th & 12th, Percentage: 92.6% (2011-2013)**

SKILLS

- Data science, Data Analysis
- Machine Learning, Statistics
- Deep Learning, Neutral Networks
- Scikit-learn, Tensorflow and Pytorch
- Python, Java, Advanced Java, C, C ++
- Data Structures and Algorithms
- MySQL, Oracle, Data Visualization,
- Data Warehouse and Data Mining
- Computer Vision, NLP, Generative AI
- Artificial Intelligence, Matlab
- Tableau, Power BI, Weka, Adobe
- HTML, CSS, JavaScript
- Linux, Git, Software Development
- Adobe Photo Shope & Adobe Illustrator
- NCH Video pad for video editing

MOHAN KRISHNA SUNKARA

PROFESSIONAL PROFILE

I'm a motivated PhD candidate in Computer Science at Old Dominion University, located in Norfolk, Virginia, USA. My research spans probability and statistics, NLP, computer vision, HCI, machine learning, Deep Learning, and Generative AI. I specialize in designing, deploying, and optimizing ML and deep learning models, resulting in significant contributions such as publications in top-tier conferences and journals such as IUI 2023, CHIIR 2023, Hypertext 2022, JCDL 2023, EICS 2023, IRI 2023, MDPI 2023, ASEM 2023, and forthcoming submissions to CHI 2024 and WWW 2024. My academic background includes a BTech in IT and an MTech in CSE from Manipal Institute of Technology. I also completed a digital internship at P&G Procter & Gamble near Prague, Europe, working on IoT and data analysis. In addition, I interned at HP Hewlett-Packard R&D, enhancing printer intelligence. I'm passionate about improving accessibility for the visually impaired through computer vision. Beyond academics, I enjoy horror mystery filmmaking and engage in social and spiritual groups. Open to opportunities to contribute to AI research and interdisciplinary projects. Let's connect and explore potential collaborations.

WORK EXPERIENCE

Research Intern at ISG - Information Services Group Research and Advisory Firm in Stamford, Near New York, USA from Aug 2021 to Present

- Developed a cutting-edge Clause Recommendation System that harnessed "FOISS" (Facebook Optimized Index for Similarity Search) and "ANNOY" (Approximate Nearest Neighbors Over Y-axis) for efficient contract indexing.
- Enhanced the system's capabilities with features like clause authoring, similarity analysis, and error correction, significantly improving contract management and accuracy. Integrated state-of-the-art NLP solutions like generative AI from top conferences like EMNLP for these aspects.
- Utilized data analysis and AI techniques to optimize system performance, honing my technical skills and understanding of the transformative potential of AI, NLP, and data analysis across various industries.

Research Assistant at Web Science & Digital Libraries Research Group, Old Dominion University, VA, USA from August 2021 to Present

- Conducted research on machine learning, natural language processing, human-computer interaction, and accessible computing.
- Explored ways to improve web accessibility for Blind and low vision users.
- Utilized AI, ML, computer vision, and NLP to create personalized software for vision-impaired users, low vision users, and sighted users. Keywords: research, machine learning, natural language processing, human-computer interaction, web accessibility, AI, ML, computer vision, NLP.

Intermediate level of knowledge:

- Android, Dot Net
- Cloud computing, Thing Worx.

PUBLICATIONS

- **Enabling Customization of Discussion Forums for Blind Users(EICS 2023)**
- **Assessing the Accessibility of Web Archives(JCDL 2023)**
- **Enabling Convenient Online Collaborative Writing for Low Vision Screen Magnifier Users(HyperText 2022)**
- **Detecting Deceptive Dark-Pattern Web Advertisements for Blind Screen-Reader Users(MDPI2023)**
- **AutoDesc: Facilitating Convenient Perusal of Web Data Items for Blind Users(IUI2023)**
- **Gaze Analytics Dashboard for Distributed Eye Tracking (IRI2023)**
- **DisETrac: Distributed Eye-Tracking for Online Collaboration(CHIIR 2023)**
- **Assistive Technologies for People with Visual Impairments(ODU Digital Commons)**
- **Artificial Intelligence based Analysis on Behavior Characteristics of Early Reviewers -Posted Reviews on Large E-Commerce Platforms**
- **IoT Architecture For Search, Rescue, And Disaster Recovery Missions**
- **Semantic Hashing to Understanding short text using Neural Networks**

ACADEMIC COURSES

- Data Visualization
- Machine Learning
- Natural Language Processing(NLP)
- Computer Vision
- Human-Computer Interaction(HCI)
- Data Minning & Security
- Scientific Writing
- High-Performance Computing on emerging architecture(Graphic Card and GPU-related, CUDA, One-API Programming)

EXTRA CURRICULAR ACTIVITIES

- Film Making
- Social & Spiritual Service
- Designing
- Video Editing
- Acting & Storytelling

R & D Intern at HP Research and Development in Bangalore, India from May 2018 to Nov 2018

- Developed AI-based methods to automate error diagnosis in HP printers using log messages, streamlining troubleshooting processes.
- Enhanced logging mechanisms for HP printers and created C language code parsers in Python to improve error detection and resolution.
- Proficient in a wide range of technical areas, including networking protocols, SQL servers, MATLAB, C++, Linux, Git, and JavaScript.
- Passionate about AI, deep learning, and machine learning, driving contributions to innovative tech solutions.

Digital Intern, Data Analyst and Project Manager at Procter & Gamble in Rakovnik, Near Prague, Czech Republic, Europe from Dec 2018 to May 2019

- Led digital initiatives to reduce human labor and increase productivity in P&G plant.
- Performed data analytics on various departments' data using Python and R programming languages.
- Developed Power BI and Tableau dashboards and created a cloud-based IoT tool for safety and quality monitoring. Keywords: digital solutions, data analytics, Python, R programming, Power BI, Tableau, IoT, safety monitoring, quality monitoring, business analysis, finance, leadership, communication.

Cyber Security Summer Intern at Gurugram Police Cyber Cell at Gurugram near New Delhi, India from Jun 2021 - Jul 2021

- Gained insight into cybercrime prevention measures, cyber legislations in India, and real-life case studies.
- Collaborated with Gurugram Police and Government Officials on cyber awareness programs. Keywords: cyber security, cybercrime prevention, cyber legislations, real-life case studies, cyber awareness, collaboration.

Search Engine Optimizer Intern at JB Software and Consulting in Hyderabad from May 2014 to Jul 2014

- Improved website ranking through auditing and optimization using online tools.
- Utilized SEO techniques to increase website ranking on Google search. Keywords: search engine optimization, website ranking, auditing, optimization, SEO techniques, Google search.

Web Technologies Intern at NinevitesGlobal in Hyderabad from May 2014 to Jul 2014

- Mastered various web technologies and developed back-end and front-end of websites.
- Worked on databases for storing and fetching information using SQL queries. Keywords: web technologies, back-end development, front-end development, databases, SQL queries.

AWARDS AND HONOURS

- Attended in-person conference in Sydney, Australia for ACM IUI conference 2023, 28th Annual Conference on Intelligent User Interfaces hosted by University of Technology Sydney, Australia
- Attended in-person conference in Swansea, UK for the 15th ACM SIGCHI Symposium on Engineering Interactive Computing Systems 2023.(EICS 2023)
- Attended ACM Hyper Text conference 2022: 33rd ACM Conference on Hypertext and Social Media in Barcelona (Spain)
- Achieved Certificate of Appreciation by IEEE for volunteering in International Conference on Advances in Computing, Communications and Informatics (ICACCI)