My specific area of interest is machine learning and computing engineering. Growing up in a rural village has given me a unique perspective on the challenges faced by rural people. My upbringing in a village with limited transportation and technology has shaped me to make a difference through the utilization of technology.

Through this research fellowship, the project's primary objective is to enhance context-aware Named Entity Recognition (NER) and BERT, a natural language processing model, to extract and manage deadlines within user-generated texts. The project's outcomes will be twofold, first validating the theory of context-aware NER as a significant contributor to deadline extraction accuracy and second, yielding a practical, user-friendly system for precise deadline recognition in user-generated text.

I was always willing to seek research guidance from experts to merge my theory and ideas practically, but I never had one. I am genuinely enthusiastic about contributing to the advancement of NLP research and look forward to learning from experts in the field during the fellowship. This research can push me to do more in the field of ML in favour of my rural communities to address some of their challenges and will give potentially meaningful steps and a foundation for my future research advancement. and I believe no project can reach its full potential without the invaluable foundation of innovative research.

I am interested in Natural language processing(NLP), AI/ML, and mobile computing to solve real-world problems.

Through this fellowship, I would like to work on NLP research and development. Texting is one of the most effective ways of communication between users including sharing appointments, events to attend, professional updates, personal conversations, etc. This information can be used to develop user-friendly scheduling to support any type of personality, such as students, working professionals, workers, and housewives, to build effectiveness in their day-to-day lives by sending alerts. The system utilizes NLP, ML, and Context-aware named entity recognition(NER) to extract the exact deadlines, places, times, and types of events from a wide range of text messages that are sent by different contacts of a user. This data can then be used to send friendly alerts to the users well in advance. If multiple events collide with one another then most crucial tasks are given precedence.

I was always willing to seek research guidance from experts to merge my theories and ideas practically, but I never had one. I am genuinely enthusiastic about contributing to the NLP research and look forward to learning from experts in the field. This research can push me to do more in the field of ML in favor of rural communities to address some of the basic challenges such as transportation and will give potentially meaningful solutions in my future research advancement. and I believe no project can reach its full potential without the foundation of innovative research.

Thank you.

* Certifications:
  1. Tata Data Visualization Job Simulation with Forage (Micro Internship)
     + Completed data visualization tasks with Tata, gaining skills in data interpretation and visual representation.
  2. Nestle's Training on How to Ace an Interview (Nesternship)
     + Acquired interview and soft skills necessary for excelling in job interviews.
  3. Linux Competent Badge from TryHackMe
     + Achieved a Linux Competent Badge, showcasing proficiency in Linux-based environments.
  4. Networking Basics Badge from Cisco Networking Academy
     + Earned the Networking Basics Badge, indicating knowledge of essential networking concepts.
  5. OWASP Top 10 Badge from TryHackMe
     + Obtained the OWASP Top 10 Badge, demonstrating expertise in web application security.
  6. Cascading Style Sheets Certification from HackerRank
     + Certified in Cascading Style Sheets (CSS), a fundamental skill for web development.
* Training:
  1. Completed "The Complete 2023 Web Development" from Udemy, gaining expertise in Full-stack web development.
  2. Successfully learning "Machine Learning and Artificial Intelligence" from AWS Skill Builder, acquiring knowledge in machine learning and artificial intelligence.

Internships

Full-Stack Development Summer Internship:

* Position: Full-Stack Development Intern
* Organization: Capabl (formerly Elite Techno Groups)
* Duration: July 2023 to August 2023

Role:

* During this internship, I had the opportunity to work on a library management system using Java. I actively participated in the development of the system, enhancing my Java programming skills and gaining practical experience in full-stack development.

Cyber Security Internship:

* Position: Cyber Security Intern
* Organization: Senselearner Technologies Pvt Ltd
* Duration: September 2023 to October 2023

Role:

* This internship provided me with hands-on experience in the field of cybersecurity. I engaged in a variety of cybersecurity projects that allowed me to apply my knowledge and develop essential security skills.
* Projects:
  1. Online Vehicle Rental System using Python
     + Developed a functional online vehicle rental system, showcasing web development and project management skills. This system streamlined the vehicle rental process for users.
  2. Spam Filtering Using Python
     + Implemented a Python-based spam filter, exhibiting programming and data analysis skills. This project significantly reduced unwanted email clutter for users.
  3. Hospital Management System using Full-stack
     + Designed and built a comprehensive hospital management system, highlighting software development and database management skills. This system improved hospital operations and patient data management.

**13. Extra-curricular Activities**

1**.** ArtiSec-RIT(AI/ML and Cyber security Club of RIT) Designer:

Duration: December 2022-Present

Collaborated with the technical team to design user-friendly interfaces for club projects, ensuring seamless user interaction.

Contributed to the development of the club's website, making it an informative and visually appealing resource for club members and the wider community.

2. DECA-RIT(Department of Extra Curricular Activities Club of RIT) Kannada Rajyotsava Publicity Volunteer:

Duration: November 2022

Successfully promoted and publicized various events and activities organized by DECA-KR, using a variety of communication channels, including social media, posters, and word-of-mouth marketing.

Collaborated with a team to plan and execute marketing campaigns to attract a broader audience to cultural events and celebrations.

3. Mathematics Tutor for Government school children**:**

Duration: 2021 December - Present

As a math tutor, I am helping our rural children succeed academically by assisting in understanding math concepts

* 1. Smart India Internal Hackathon:
  2. Duration: 22 September 2023 - 23 September 2023
  3. As a volunteer for the Smart India Internal Hackathon, I actively contributed to the successful organization and execution of the event, which focused on fostering innovation and problem-solving in various technology domains, including AI/ML.
  4. Assisted in the planning and coordination of the hackathon, from participant registration to event logistics and technical support.

**14. Any Other Information:**

* Proficient in programming languages: C++, C, Python, Java.

Skilled in web development technologies: HTML5, CSS3, JavaScript, Bootstrap, Tailwind CSS, ReactJS, UI, UX and NodeJS.

* Well-versed with Design tools: Canva, AdobeXD
* Competent in database management: MySQL and MongoDB
* Skilled in Linux Operating system
* Achieved a consistent top-10 ranking in weekly coding contests at Coding Ninjas, highlighting strong coding and problem-solving abilities.

Mainroad,Neethigere,Davangere,Karnataka.

M S Ramaiah Institute of Technology,Bengaluru

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| FL4720 | | | | **Arjunan, Dr Pandarasamy** IISc, Bengaluru | | | | | | | | | Data Science, AI/ML, Cyber Physical Systems, Internet of Things, Smart Cities, Smart Buildings, Energy Sustainability, Time Series Analysis, Anomaly Detection | | | | Engineering | | | | | | | | \* Computer Science \* Electrical | | | |
| FL2525 | | | | **Barnwal, Dr Rajesh P. CMERI, Durgapur** | | | | | | | | | AI & ML, Internet of Things, Cyber Physical Systems, Network Security, Participatory Sensing | | | | Engineering | | | | | | | | \* Computer Science \* Electronics | | | |
| FL2511 | | | | **Basuchowdhuri, Dr Partha IACS, Kolkata** | | | | | | | | | NLP (Fact Verification, Knowledge Graph), Biomedical Image Processing, Graph Algorithms | | | | Engineering | | | | | | | | \* Computer Science | | | |
| FL4311 | | | | **Bharadwaj, Dr Pawan IISc, Bengaluru** | | | | | | | | | Seismology, Geophysical Inverse Theory, Scientific Machine Learning | | | | Earth and Planetary Sci. | | | | | | | | \* Earth Sciences | | | |
| FL3820 | | | | | **Chakraborty, Dr Anirban** IISc, Bengaluru | | | | | | | | | Visual Analytics, Data Association over Graphs, Data Fusion & Consistency, Applications of Computer Vision & Machine Learning in Bio-medical Image Analysis, Video Surveillance | | | | | | | | | | | | | | Engineering | |
| FL829 | | | **Chakravarthy, Dr Bhagvati** UOH, Hyderabad | | | | | | | | | Deep Learning, Image Processing, Pattern Recognition, Colour Image Processing | | | | | | | Engineering | | | | \* Computer Science | | | |
| FL4114 | | | | **Ghosh, Prof. Ashish** ISI, Kolkata | | | | | | Computer Science, Artificial Intelligence, Data Science, Machine Learning | | | | | | | | | | | | Engineering | | | |
| FL3468 | | | | **Hegadi, Dr R. S.** Central Univ. of Karnataka, Kalaburagi | | | | | Digital Image Processing, Computer Vision, Medical Image Analysis, Document Image Analysis, Biometrics, Machine Learning, Artificial Intelligence | | | | | | Engineering | | | \* Computer Science | | | | | |
| FL806 | | | | **Jawahar, Prof. C.V. IIIT, Hyderabad** | | | | | Computer Vision, Image Processing, Machine Learning | | | | | | Engineering | | | \* Computer Science | | | | | |
| FL3834 | | | | **Kumar, Prof. Uttam IIIT, Bengaluru** | | | | | Data Mining/Data Science, Applied Machine Learning, Remote Sensing, Digital Image Processing, Management Information System (MIS), Geographic Information System (GIS) | | | | | | Engineering Earth and Planetary Sci. | | | \* Computer Science \* Earth Sciences | | | | | |
| FL751 | | **Maji, Prof. Pradipta** ISI, Kolkata | | | | | | Machine Learning, Pattern Recognition, Medical Image Processing, Bioinformatics, Imaging Genomics | | | | | | | | Engineering | | | | |
| FL2731 | **Mishra, Dr Deepak** IIST, Thiruvananthapuram | | | | | Machine Learning, Computer Vision & Graphics, Image Processing, Deep Learning, Sparse Signal Processing, Robotic Vision , intelligent robotics, remote sensing | Engineering Earth and Planetary Sci. Mathematics Physics | | | | \* Aeronautical \* Biotechnology \* Computer Science \* Electrical \* Electronics \* Atmospheric \* control theory, optimization, operations research \* differential equations, dynamical systems, mathematical physics \* Atomic Physics, Lasers and Optics | | | | | | | | |
| FL3472 | **Mondal, Dr Arpita IIT, Mumbai** | | | | | Hydrology, Statistics, Climate Change, Hydraulics, Detection & Attribution, Water Resources, Machine Learning, Floods, Droughts, Heat Waves, Extreme Events | Engineering Earth and Planetary Sci. | | | | \* Civil \* Atmospheric | | | | | | | | |
| FL2172 | **Negi, Prof. Atul UOH, Hyderabad** | | | | | Deep Learning, Optical Character Recognition, Internet of Things, Cyber Physical Systems | Engineering | | | | \* Computer Science \* Artificial Intelligence | | | | | | | | |
| FL494 | **Pal, Prof. Sankar K. ISI, Kolkata** | | | | | Pattern Recognition & Machine Learning, Image/Video Processing, Computing with Words, Soft Computing, Deep Lesrning, Granular Data Mining, Web Intelligence, Social Network Analysis, Bioinformatics | Engineering | | | | \* Computer Science \* AI and ML | | | | | | | | |

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| FL3146 | **Patra, Prof. Arpita** IISc, Bengaluru | | | Cryptography, Secure Distributed Computing, Information Security | Engineering | | \* Computer Science | | |
| FL3031 | **Raman, Dr Shanmuganathan IIT, Gandhinagar** | | | Computer Vision, Machine Learning, Deep Learning, Image Processing, Computational Photography, Computer Graphics | Engineering | | \* Computer Science \* Electronics | | |
| FL3324 | **Roy, Dr Sudip IIT, Roorkee** | | | Design Automation of Electronic Systems, IoT & Data Analytics, Algorithm Design for Optimization Problems, Application of Machine Learning | Engineering | | \* Computer Science | | |
| FL3848 | **Saketha Nath, Dr J. IIT, Hyderabad** | | | Machine Learning | Engineering | | \* Computer Science | | |
| FL1813 | **Saxena, Dr Geetika Jain UOD, Delhi** | | | Digital Image & Video Processing, signal processing, Machine Learning, Optoelectronics | Engineering | | \* Computer Science \* Electronics | | |
| FL2189 | **Sethu Selvi, Prof. S. MS Ramaiah Inst. of Tech., Bengaluru** | | | Machine/Deep Learning, Image Processing, Signal Processing, Non-linear Filtering, Data Analytics | Engineering | | \* Computer Science \* Electronics | | |
| FL2982 | **Sharma, Dr G.V.V.** IIT, Hyderabad | | Artifician Intelligence and Machine Learning, Communication, Signal Processing, Embedded Systems, Power Electronics, Analog Circuits, Unmanned Aerial Vehicles, Biomedical Engineering | | | | | | Engineering Mathematics | |
| FL3854 | **Sheet, Dr Debdoot** IIT, Kharagpur | Deep Learning, Medical Image Analysis, Explainable Machine Learning, Multimedia Compression | | | | Engineering | | \* Computer Science \* Electrical \* Electronics | | |

1. Programming Skills:

Proficient in Python, a key language in machine learning, for data analysis, model development, and automation.

Competent in C++ and Java, offering versatility in software development and expanding my problem-solving toolkit.

1. Web Development and UI/UX:

While primarily focused on machine learning, I have web development and UI/UX skills that can enhance the user experience of AI applications. This knowledge has allowed me to create user-friendly interfaces for machine learning solutions.

1. Database Management:

Competency in database management with MySQL and MongoDB, crucial for handling and processing large datasets, a fundamental aspect of machine learning.

1. Linux Operating System:

Proficiency in Linux, an environment widely used in machine learning, ensuring seamless compatibility with AI/ML tools and frameworks.

1. Coding Competitions:

Consistently achieving top-10 rankings in weekly coding contests at Coding Ninjas, showcasing strong problem-solving abilities and a competitive spirit.