Neeraj Kondaveeti

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EDUCATION

Indiana University Bloomington Aug 2023 – May 2025
Master of Science in Computer Science *Bloomington, IN*

Koneru Lakshmaiah University July 2019 – May 2023
Bachelor of Technology in Computer Science Engineering *Hyderabad, India*

EXPERIENCE

Software Engineer June 2025 – Present
One Community / Highest Good Network *Remote*
- Engineered analytics dashboards and rebuilt core modules using the MERN stack, delivering interactive charts, filters, and PDF export features that improved data visibility for 200+ end users and reduced reporting time by over 25%.
- Enhanced system reliability and scalability by optimizing Redux state management, refining UI accessibility, and strengthening backend APIs with Node.js, Express, and MongoDB, resulting in 30% faster API responses and 20% quicker feature deployments.

Graduate Research Assistant (GeoAI Projects) Feb 2025 – June 2025
Indiana University Bloomington *Bloomington, IN*
- Applied machine learning pipelines to 500GB+ geospatial datasets, increasing prediction accuracy by 15% and reducing inference latency by 30%.
- Automated dataset preparation with Python scripts, scaling data by 200% and improving model generalization and collaborated with PhD researchers in an agile, cross-functional team to deliver efficient AI-driven solutions.

Data Analyst June 2022 – June 2023
Reliance Jio *Hyderabad, India*
- Designed and deployed multi-page KPI dashboards with MySQL, Apache Superset, and HTML/CSS, serving 10,000+ users across Sales, Marketing, and Finance.
- Streamlined SQL pipelines by modularizing queries and automating validation, reducing manual workload by 30% while also Partnering with cross-functional stakeholders to troubleshoot data discrepancies and iteratively improve dashboard accuracy.

PROJECTS

Full-Stack E-commerce Platform (MERN) | *MongoDB, React, Node.js, Tailwind CSS, JWT, SQL, Vercel* | [GitHub]
- Developed a secure, full-stack application using React.js, Node.js, Express.js, and MongoDB with MVC architecture, including authentication, product browsing, cart, and payments.
- Implemented scalable front-end state management with Redux across 20+ components and integrated Stripe for secure transactions.

Automated Archaeological Mound Detection | *Python, Data Analysis, Machine Learning, Jupyter* | [GitHub]
- Trained and deployed a YOLOv5 object detection model to identify archaeological mounds in DTM imagery, achieving high precision and recall with sparse labeled data.
- Automated dataset expansion via custom Python scripts for image preprocessing, incorporating CLAHE, geometric transformations, and data augmentation, resulting in a 200% increase in dataset size and improved generalization.

AI-Powered Calendar Application | *React.js, Node.js, Express.js, LLMs, Google Calendar API, Git* | [GitHub]
- Architected an AI-powered pipeline using OpenAI GPT to parse unstructured syllabus PDFs into structured event data, automating schedules and reducing manual planning effort by 80%.
- Developed asynchronous Node.js/Express.js services for event validation, ICS generation, and Google Calendar synchronization, ensuring accurate deadlines and reminders for 100+ users.

TECHNICAL SKILLS

Programming Languages: JavaScript(ES6), Python, TypeScript, Java, C++, SQL, HTML/CSS
Frameworks & Libraries: React.js, Next.js, Node.js, Express.js, Redux Toolkit, Tailwind CSS, TensorFlow, Pandas, Numpy, Matplotlib, Scikit-learn
Databases & Cloud: MongoDB, MySQL, PostgreSQL, Oracle, AWS, Azure, Vercel, Git, Docker, CI/CD
Data Structures & Algorithms: Core academic foundation in B.Tech & M.S. Computer Science
AI/ML & Data Processing: OpenAI GPT(LLMs), YOLOv5, PDF Parsing, Data Augmentation, REST APIs
Tools & Platforms: Postman, Jupyter, Apache Superset, Stripe, Clerk, Selenium, Linux