Anurag Yadav

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EDUCATION

University of Koblenz — **Koblenz, Germany**
Masters in Web and Data Science — *October 2024 - Present*

Sir M Visvesvaraya Institute of Technology — **Bengaluru, India**
B.E. in Computer Science — *July 2019 - July 2023*

TECHNICAL SKILLS

Programming Languages: Javascript, TypeScript, Python, C/C++, Java, GoLang

Frameworks/Libraries/Technologies: HTML, CSS, Javascript, React, React-router, Express, MongoDB, Prisma, PassportJS, Postgres, Neo4j, SQL, Serverless Deployment, Docker, Kubernetes, Jenkins, Linux, Jest, REST, GIT, Github.

WORK EXPERIENCE

Coding Expert - Part-time / Freelance — **Remote**
-at **Remotask** — *1 Sep 2023 – 1 Feb 2024*

- Enhanced Code Usability: Refined LLM-generated code for correctness, clarity, and alignment with user requirements, ensuring accurate and functional outputs.
- Evaluated and Compared LLM Responses: Assessed accuracy, relevance, and user alignment in LLM responses, comparing them to identify strengths, weaknesses, and areas for improvement in future LLM iterations.
- Accelerated LLM Learning: Provided detailed feedback with rewrites, explanations, and clear code examples, significantly contributing to developing more accurate and reliable LLM-generated outputs.

Graduate Rotational Internship Program - Data Science & Business Analytics — **Remote**
-at **The Sparks Foundation** — *September 2022 - October 2022*

- Completed a 4-week Data Science and Business Analytics internship at The Sparks Foundation.
- Completed 6 tasks focused on data analysis, machine learning, and business analytics.
- Utilised programming languages such as Python, R, and Tableau for data analysis, visualization, and business analytics.
- Conducted linear regression, unsupervised learning, decision tree algorithms, and hybrid modeling for stock price prediction.
- Developed data analysis, machine learning, and business analytics skills, providing valuable experience for future roles in these areas.

Publications

Gastrointestinal Tract Image Segmentation| publication url

-International Journal of Emerging Technologies and Innovative Research - 2023

This research investigated the application of deep learning for automating the segmentation of the stomach and intestines in MRI images used during radiation oncology treatments. Accurate segmentation is crucial for targeting radiation therapy to tumors while minimizing exposure to healthy organs. The study proposed a deep learning approach utilizing U-Net models to automate this time-consuming process. This automation has the potential to improve treatment planning efficiency for radiation oncologists, potentially leading to faster treatment delivery and improved patient care. The model achieved a promising Dice score of 0.87 on the validation set, demonstrating the potential effectiveness of the proposed approach.

Projects

ShopMarket| *Live* | *Code*

- Developed a responsive front-end for an e-commerce website using React and React Router.
- Followed modular component-based architecture for code maintainability.
- Utilized client-side caching and efficient data fetching for improved performance.
- Collaborated on UI/UX design and implemented user-friendly shopping cart management.

Live Crypto Tracker | *Live* | *Code*

- Developed a real-time cryptocurrency price tracking application using Vite.js and React, providing users with up-to-the-minute data on the top 100 cryptocurrencies.
- Implemented efficient API rate-limiting strategies, including a custom myFetch mocking function, ensuring smooth data retrieval during development and testing.
- Utilized hooks and asynchronous programming to maintain synchronized updates, enhancing the user experience with automatic data refresh every minute.
- Designed a user-friendly interface with a responsive layout, allowing users to stay informed about the volatile cryptocurrency market effortlessly.

Memory-card game| *Live* | *Code*

- Created an engaging and interactive memory card game using React, demonstrating proficiency in modern front-end web development.
- Integrated real-time data from the PokeAPI, enhancing the game's content and showcasing data-fetching abilities.
- Designed and implemented a responsive user interface, emphasizing user-centric design principles and ensuring an enjoyable gaming experience.

CV/Resume builder| *Live* | *Code*

- Developed a web-based CV Resume Builder using React.
- Users can input personal details, education, work experience, skills, and projects.
- Implemented PDF generation for one-click resume downloads.
- Employed localStorage for seamless data storage, ensuring data persistence.

Certifications

- **Graph Data Modeling Fundamentals**, Neo4j — Feb 2025
- **Importing Data Fundamentals**, Neo4j — Feb 2025
- **Cypher Fundamentals**, Neo4j — Jan 2025
- **Neo4j Fundamentals**, Neo4j — Jan 2025
- **Improving Deep Neural Networks**, DeepLearning.AI — Dec 2021
- **Structuring Machine Learning Projects**, DeepLearning.AI — Dec 2021
- **Machine Learning**, Stanford University — Nov 2021
- **Neural Networks and Deep Learning**, DeepLearning.AI — Sep 2021
- **Crash Course on Python**, Google — Sep 2021

Achievements and Honors

- **All Karnataka Rank 4383** KCET.
- **Qualified for Pre-Regional Mathematical Olympiad** (2018).
- Qualified for the **Regional Mathematical Olympiad**(2018).
- Recipient of the **Karnataka State Scholarship.**