Shruti Dubey

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Summary

Postgraduate in Computer Science with experience in full-stack development using Flutter, Node.js, and AWS. Leading the build of a health supplement platform, handling both frontend and backend. Interested in applying tech to healthcare through machine learning, API integrations, and cloud-based systems.

Work Experience

Freelance Full-Stack Developer, Ecozen Healthcare – Remote   June 2025 - Current

- Leading the end-to-end development of a health supplement platform, taking full ownership of architecture, development, and deployment.
- Independently leading the development of a mobile-first health supplement platform, using Flutter to build a responsive and engaging frontend focused on user education and product discovery.
- Designed and deployed Django REST APIs, integrated third-party services (checkout, CRM, chatbot), and implemented cloud-based features to support scalability.

Frontend Developer Intern, Zero Designs – Ahmedabad, India   Nov 2021 – Jan 2022

- Developed responsive web pages using HTML5, CSS, and JavaScript, improving site performance and achieving a 30% faster load time across devices.
- Built backend services using Node.js and Express for dynamic data rendering. Integrated custom WordPress plugins and React components to enhance interactivity and streamline content management.
- Collaborated in an agile team to deliver accessible, brand-aligned UIs, leading to a 20% increase in user satisfaction based on client feedback and analytics.

Education

University of Manchester, Manchester, UK   Sept 2023 – Sept 2024
MSc in Advanced Computer Science   Grade: Masters with Merit
Units Taken: Data Engineering, System Governance, Modelling and Querying Data on the Web, Principles of Digital Biology, Health Informatics

University of Mumbai, Mumbai, India   July 2019 – May 2023
BEng in Computer Engineering   CGPA: 9.51/10
Units Taken: Data Structures, Mathematics, Database Management Systems, Mobile App Development, NLP

Technologies

Languages: Python, JavaScript, SQL, HTML, CSS, R, PHP, C, C++, Java

Tools/Frameworks: MySQL, MongoDB, Flutter, Node js MS Excel, PowerBI, Tableau, Qlik, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, NLTK, NLP, Plotly, SQLite, Sklearn, TensorFlow, PyTorch, React, Django, Dash, D3.js, Microsoft Office, JupyterLab

Cloud: Currently enrolled in AWS She build program

Projects

News Headlines and Covid Vaccine Data Analysis (Dissertation)

- Collected and processed over 433,000 news headlines from 3 major UK news websites using web scraping (BeautifulSoup) and performed sentiment analysis with VADER to identify trends in vaccine-related media coverage.
- Engineered and cleaned structured vaccination data and public sentiment datasets, applying NLP techniques, keyword extraction, and text pre-processing using NLTK and Pandas.
- Delivered actionable insights by designing a visualisation dashboard using Dash/Python and Plotly, enabling correlation analysis between vaccination rates and sentiment trends across time and regions.

Recommending Project Resources (Final Year Project)

- Engineered and cleaned a dataset of over 3,600 project entries collected via web scraping from platforms like GitHub and Medium using Octoparse, structuring the data for model training.
- Built and deployed a content-based recommendation system using CountVectorizer and Cosine Similarity to match user queries with relevant project resources, improving discoverability across domains.
- Applied NLP techniques such as tokenisation, stemming (PorterStemmer), and stopword removal using NLTK, and developed an end-to-end ML pipeline to serve real-time recommendations via a web interface; also published the work in **IJRASET**.