

VASUKI S

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TECHNICAL PROJECTS

JOB RECOMMENDATION SYSTEM | PYTHON, STREAMLIT, SCIKIT-LEARN, TF-IDF, COSINE SIMILARITY, PYPDF2

- Built a resume-based job matching app using TF-IDF and cosine similarity to compare candidate skills with job descriptions.
- Parsed and cleaned resume content using PyPDF2, ranking jobs based on skill overlap and experience relevance.
- Developed a secure, interactive web interface using Streamlit with resume upload, job display, and basic authentication.

UNIVERSITY ASSET MANAGEMENT SYSTEM | NODE.JS, EXPRESS.JS, MONGODB ATLAS, JWT, EMAILJS, REDIS, RAILWAY, QR CODE API

- Created a full-stack, role-based web app to manage university inventory with asset tracking via dynamic QR codes.
- Secured all endpoints using JWT authentication, bcrypt for password hashing, and applied rate limiting and HTTPS protocols.
- Automated maintenance alerts via EmailJS, cached frequent queries using Redis, and deployed using GitHub Actions + Railway CI/CD.

NEWS APP | HTML, CSS, JAVASCRIPT, NODE.JS, EXPRESS.JS, NEWSAPI

- Designed a responsive news app that fetches categorized headlines from NewsAPI via an Express.js backend.
- Utilized asynchronous JavaScript and error-handling patterns to ensure real-time updates and smooth UX.
- Implemented modular code architecture with environment-based API keys and minimal security best practices.

CLOUDBURST PREDICTION SYSTEM | PYTHON, TENSORFLOW, REST APIS, LSTM, PANDAS, NUMPY

- Developed a real-time cloudburst prediction model using LSTM networks trained on time-series weather data fetched via public APIs every 5 minutes.
- Enhanced model robustness by engineering synthetic datasets based on meteorological thresholds to mitigate limited data availability.
- Implemented preprocessing pipelines for normalization and feature extraction to support accurate and deployment-ready predictions.

INTERNSHIPS

NOVITECH R AND D PVT.LTD

- Full Stack Development
- Cyber Security

EDUCATION

KPR INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.TECH ARTIFICIAL INTELLIGENCE AND DATA SCIENCE
2023-2027| Coimbatore
Cum. GPA: 8.2

SKILLS

PROGRAMMING

- Python, C/C++, JavaScript, Java ,SQL,MATLAB
- HTML5, CSS3, Node.js, Express.js, REST APIs,Streamlit, React.js ,JWT Authentication
- MongoDB, Redis, MySQL, PostgreSQL

TECHNOLOGY

- AWS, Git, GitHub, Docker
Artificial Intelligence

COURSEWORK

GRADUATE

Analysis of Algorithms

UNDERGRADUATE

- Artificial Intelligence
- Data Structures
- Object Oriented Programming
- DBMS
- Deep Learning

ACHIEVEMENTS AND PARTICIPATION

- NPTEL Silver Medalist in "Data Analytics with Python" – recognized for strong skills in data handling, statistical analysis, and Python programming.
- NVIDIA National Codathon – demonstrated advanced coding, algorithmic thinking, and problem-solving in a national-level competition.
- Certified in Image Analysis using OpenCV; participated in inter-college technical events; attended seminars on AI, data mining, and image processing.

PROFILES

linkedin.com
hackerrank.com