YASH RAJ

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Innovative and results-driven Computer Science Engineer with a strong foundation in AI and Software Development. Proven ability to design, implement, and optimize algorithms for real-world applications. Skilled in data analysis, cloud computing, and deploying scalable AI solutions. Adept at collaborating with cross-functional teams to deliver impactful projects. Passionate about leveraging AI and datadriven insights to tackle complex challenges and drive efficiency. Committed to continuous learning and advancing cutting-edge technologies.

Education

Bachelor of Technology (B. Tech), Computer Science and Engineering (CSE) Central University of Haryana (CUH) | Mahendragarh, Haryana

GPA 7.86/10

Work Experience

ML-LMS Research Intern | Ignitus Worldwide Co, Madrid, Spain

- Led collaborative initiatives with INRIA, LIRMM, and Université Paul Valéry to enhance biodiversity management • using advanced machine learning methodologies.
- Engineered a multimodal model that integrated diverse data streams, culminating in a validation loss of 0.31626 and significantly enhancing species distribution predictions.
- Optimized model architectures through hyperparameter tuning, resulting in a 20% improvement in predictive accuracy for species identification tool Pl@ntNet.
- Developed high-resolution maps of species composition across Europe, empowering strategic biodiversity . management and conservation efforts.

Research Intern | Central University of Harvana CUH, Harvana, India

- Developed a predictive model for sleep onset detection from wrist-worn accelerometer data, achieving 92% accuracy and reducing manual analysis time by 40%.
- Performed comprehensive Exploratory Data Analysis (EDA) to elucidate data patterns, successfully identifying significant trends and outliers.
- Transformed raw accelerometer data through meticulous preprocessing and feature engineering, ensuring model reliability for precise sleep window detection.

Machine Learning Intern | Cloud Counselage Pvt. Ltd., Mumbai, India

- Developed a predictive analytics model for the "PathfinderED: Navigating Graduation & Career Success" project, achieving a remarkable 90% accuracy on validation datasets while reducing processing time by 18%.
- Leveraged newly acquired skills in machine learning techniques to enhance the model's efficiency, contributing to improved user experiences and data-driven decision-making processes within the organization.

Skills

Technical Stack:

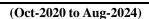
- **Programming Languages:** Proficient: Python (5 years), C/C++ (3 years), SQL (2 years) Familiar: R, JavaScript
- AI/ML frameworks: Tensorflow, Keras, PyTorch, Scikit-learn, LangChain
- Cloud Platforms: AWS, GCP
- MLOps Tools: MLflow, DVC, Docker, Kubernetes, • **GitHub** Actions
- Data Manipulation and ETL: Pandas, NumPy, SQL, • MySQL, MongoDB, Apache Spark

- Computer Vision: OpenCV •
- Web Frameworks: FastAPI, Flask
- Data Visualization Tools: Power BI, Matplotlib/Seaborn, • Excel, Orange3
- Version Control and Collaboration: Git, GitHub, DagsHub
- Markup/Styling Languages: HTML, CSS, LaTeX
- Other tools: Development Tools: Jupyter Notebooks, VS Code, Spyder Scripting: Shell AI Tools: Dialogflow, ChatGPT Cybersecurity tools

Soft Skills: Critical Thinking, Problem-Solving, Effective Communication, Team Collaboration, Adaptability, Data-driven Decision Making, Research & Analysis, Project Management.

Projects and Portfolio

- A comprehensive overview of all my projects and research works, showcasing my expertise and application of skills across various domains - Projects
- A collection of my blogs sharing insights on AI, and emerging technologies **Blogs**



(Feb-2024 to Aug-2024)

(Sep-2023 to Jan-2024)

(Jul-2023 to Sep-2023)

Achievements

- ✤ Qualified UGC NET JRF (2024) Computer Science and Applications.
- Solved 350+ programming and DSA problems on LeetCode, ranking in the Top 20% of coders globally.
- 1st Place in University-Level Web Development Competition organized by Bytecode Learners, the university's coding club.

Certifications

- Introduction to Machine Learning -Swayam NPTEL certification (Apr 2023).
- Machine Learning and Deep Learning Fundamentals and Applications Swayam NPTEL certification (Oct 2023).
- Introduction to Cyber Security -Swayam IGNOU certification (Jan 2024).
- **Digital Forensics** -Swayam IGNOU certification (Aug 2022).
- Introduction to Computer Science and Programming with python -Edx MIT 6.00.1X course certification (Oct 2021).
- Image Processing using Python -Swayam IGNOU course certification (Nov 2023).

Personal Details

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