





Surya Prakash Baid

 [linkedin.com/suryaprakashbaid](https://www.linkedin.com/suryaprakashbaid)  github.com/surya-sgit  surya.baid@outlook.com  +91 9073332551

Work Experience

Data Analytics Intern — Connecting Dream Foundation, Remote

Oct 2024 - Nov 2024

- Performed exploratory data analysis (EDA) leveraging Python and SQL on four diverse datasets to uncover 11 actionable insights and key patterns to support data-driven decisions.
- Developed six interactive PowerBI dashboards for key performance metrics of various health datasets.

Structural Analysis Research Intern — MIT, Manipal

Jan 2024 - May 2024

- Analyzed seismic response of varied levels of the soft-story building with G+10 Floors using ETABS and Python, optimizing fluid viscous dampers for improved structural performance.
- Reduced story shear by 48% and peak displacement by 40% through iterative damper coefficient optimization, enhancing building safety and stability.
- Modeled and visualized building response to seismic activity, employing data analysis and trial-and-error methods to increase damping efficiency.

Amazon Summer School Mentee — Amazon, Remote

Sep 2023 - Oct 2023

- Acquired in-depth knowledge in causal inference, reinforcement learning, supervised and unsupervised learning, sequential models, probabilistic graphical models, and deep neural networks.
- Developed a strong foundation in applying these concepts to design and implement scalable, intelligent systems for real-world applications.

Personal Projects

Vehicle Number Plate Detection

- Developed a number plate detection system using YOLO and PaddleOCR, achieving mAP@0.5 of 0.91.
- Integrated YOLO for precise plate localization and PaddleOCR for high-accuracy text recognition together for better results.
- Deployed as a Streamlit app, enabling real-time processing of 100+ images and videos.

Fish Classification

- Used the VGG16 model for fish classification, leveraging pre-trained features for better performance.
- Achieved 99.5% accuracy on the training set, demonstrating effective learning of complex patterns.
- Maintained 99.18% accuracy on unseen data, showcasing strong generalization in species classification.

Skills

Languages: Python, R, C/C++, HTML5, CSS3, JavaScript, SQL.

Tools & Technologies: LLMs, Langchain, NumPy, Pandas, TensorFlow, PyTorch, Git, GitHub, Docker, AWS.

Technical Interests: Data Analysis, Data Science, Artificial Intelligence, Machine Learning, Deep Learning, Generative AI, NLP, Computer Vision, Speech Recognition, Cloud Computing.

Soft Skills: Communication, Ownership, Creativity.

Education

Manipal Institute of Technology (MIT), Manipal

2020 - 2024

Bachelor of Technology in Civil Engineering

CGPA: 8.20/10

Minor: Data Science

Certifications

- AI/ML for Geodata Analysis - ISRO
- Google Data Analytics Professional Certificate
- Data Science: Foundations using R (Johns Hopkins University)