Raghul A R

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# Skills

* **Languages**: Python, C, Java, JavaScript, HTML, CSS, SQL
* **Cloud Technologies**: Azure
* **Developer Tools**: GitHub, Power BI, VS Code, Google Colab, Microsoft Azure
* **Soft Skills:** Leader- Ship, Decision-Making, Effective Communication, Time Management
* **Frameworks/Libraries**: Flask, ReactJS, NodeJS, Tailwind CSS, Express JS, MongoDB, MySQL, NumPy, Pandas,

Seaborn, Scikit-Learn.

# INTERNSHIP

**Data Analyst & Engineering Intern**  [](https://github.com/JaiAdithya2004/Brain-Tumor-Classification-with-DL) **June 2024 -August 2024**

Futurense Technologies, Bangalore

* + Built **automated ETL pipelines** using **Azure Data Factory** and supported **Azure Data Lake** operations, streamlining data ingestion, transformation, and reporting.
  + Cleaned and analyzed large-scale datasets to uncover actionable insights, contributing to an **84.56% increase in leads** and boosting student conversion rates.

# Developed **interactive Power BI dashboards** for real-time tracking of lead generation trends, identifying **Facebook as the top-performing marketing channel**

# Projects

**YOLO Object Detection |** Python, YOLOv5, OpenCV , PyTorch [](https://github.com/JaiAdithya2004/Brain-Tumor-Classification-with-DL) **Sep 2024 -Oct 2024**

* Designed and implemented a real-time **object detection pipeline using YOLOv5**, capable of identifying multiple object classes from live webcam and video feeds.
* **Fine-tuned YOLOv5 on a custom-labeled dataset**, applying data augmentation and transfer learning to enhance class-specific accuracy.
* Integrated with **OpenCV** to visualize detections, overlaying bounding boxes and confidence scores in real-time video streams.
* Achieved **~80% mAP@0.5** on the validation set, with efficient inference suitable for real-world applications.

**Sentiment Analysis** **|** Python, LSTM, TensorFlow/Keras , NLP, GloVe Embedding[](https://github.com/JaiAdithya2004/Brain-Tumor-Classification-with-DL) **Sep 2024 -Oct 2024**

* + Built an **LSTM-based deep learning model** to classify social media posts (Twitter/X) into **positive, negative, and neutral** sentiment categories.
  + Preprocessed text data using NLP techniques including **tokenization, stop word removal, and stemming**, improving model input quality.
  + Integrated **GloVe pre-trained word embeddings** to capture semantic meaning and improve sentiment classification accuracy.
  + Achieved **~80% test accuracy**, with performance validated through **confusion matrix, precision-recall metrics**, and visualizations like **word clouds**.

**Task Flow** **|** ReactJS, MongoDB, NodeJS [](https://github.com/JaiAdithya2004/Brain-Tumor-Classification-with-DL) **Sep 2024 -Oct 2024**

* Developed a task management web app enabling users to create, edit, and track tasks efficiently.
* Featured a responsive React frontend, MongoDB for data storage, and NodeJS with REST APIs for real-time task operations and user management.
* Successfully deployed locally, enhancing personal productivity durisng academic projects.

# Certificates

* **Full Stack Web Development February 2025**

Harkirat Singh - <https://app.100xdevs.com/certificate/verify/8O3N5V9C>

* **The Complete Python Developer February 2025**

Udemy - [*ude.my/UC-55d7a7db-106f-48be-9927-70eb85e06e84*](file:///Users/raghular/Library/Containers/net.whatsapp.WhatsApp/Data/tmp/documents/E580E83C-C836-4BC3-AA09-67BFCAE2C292/ude.my/UC-55d7a7db-106f-48be-9927-70eb85e06e84)

# ACHIEVEMENTS

### Smart India Hackathon (SIH) 2024

### Passed the first round

### IIT Patna Tech Fest Winner

### Won a tech competition at IIT Patna

# Education

* **Lovely Professional University** 2022 – 2026B.Tech - CSE (AI & Data Engineering) — CGPA: 7.82/10 **J**alandhar, Punjab