# Jonathan Abhishek Rao Thota

## Data Scientist

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## PROFESSIONAL SUMMARY

Master's in Data Science student with hands-on experience in machine learning, deep learning, NLP, and cloud technologies. Skilled in Python, SQL, TensorFlow, and OpenCV, building AI-driven tools that automate workflows, enhance user experience, and save time or cost. Combines technical expertise with strong communication and a user-first mindset to build impactful, scalable tools. Seeking CPT-authorized internships to apply technical skills in solving complex problems and drive innovation.

## EDUCATION

**University of Houston - Victoria**                                                                    Jan '25 – Present
*Master of Science in Data Science*                                                                        *GPA: 3.8*

## WORK EXPERIENCE

**Data Science Intern – CodeClause**                                                                    Aug '23 – Sep '23
*Remote*
- Developed a real-time color detection application using OpenCV and Python, applying image preprocessing and frame-wise inference (30 FPS).
- Designed a CNN-based age and gender classification pipeline leveraging transfer learning and feature extraction on live webcam streams.
- Built a brain tumor classification model using MobileNetV2; implemented data augmentation, EDA, and model evaluation, achieving 86.6% accuracy.
- Collaborated remotely using GitHub for version control and reproducibility, and documented ML pipelines.

## PROJECTS

**QuickBite: AI-Powered Restaurant Menu Platform** React Native, OCR, AI/ML [View]                   Apr '25
- Designed and deployed a full-stack AI platform for parsing scanned/PDF menus into structured digital menus using OCR and web scraping.
- Developed real-time data pipelines to track orders, inventory, and pricing across restaurants, reducing platform fees from an industry-average 30% to just 5%.

**SkyScraper: Indian Airline Tweet Sentiment Analysis** Python, Streamlit, Bootstrap [View]          Nov '24
- Built a dual-stack sentiment analysis platform with a static website and a Python Streamlit dashboard to visualize real-time airline sentiment trends.
- Scraped 6.8K+ tweets and airline data from Twitter and Indian airline websites using BeautifulSoup and Tweepy for NLP-based classification.
- Performed EDA, preprocessing, and sentiment tagging (positive, neutral, negative) using TextBlob; visualized insights with Plotly and WordClouds.

**Brain Tumor Detection using Deep Learning** Python, TensorFlow [View]                               Jul '24
- Applied transfer learning with MobileNetV2 on MRI scan images for binary tumor classification; performed preprocessing and class balancing.
- Used EDA, feature engineering, and validation metrics (accuracy, loss curves) to achieve 86.6% performance on test data.

## TECHNICAL SKILLS

**Languages:** Python, SQL, R, JavaScript

**Tools:** Amazon Web Services, Power BI, Hadoop, Docker, MySQL, PostgreSQL, Jupyter Notebook, Streamlit

**Technologies:** Machine Learning, Deep Learning, NLP, OCR, Generative AI (Hugging Face, OpenAI, LangChain, RAG, TensorFlow, Scikit-learn)

**Data Analysis**: Data Wrangling, Statistical Analysis, Analytical Skills

## CERTIFICATIONS & ACHIEVEMENTS

- Completed certifications in AWS Cloud, Streamlit, Deep Learning, and Statistics (View)
- Contributed to 20+ open-source projects on GitHub (Python, AI, NLP, and full-stack development)
- Winner of Mental Health Hackathon – built "Support Circle", a therapist-client virtual wellness app.