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Balaji Ramesh

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OBJECTIVE

MSc Computer Science student at McGill University (Mila) specializing in Machine Learning and NLP, seeking internships to apply experimental, modeling, and evaluation skills to real-world AI systems.

SKILLS

- Programming: Python, C++, Java, SQL
- ML & AI: Deep Learning, CNNs, RNN/LSTM, Transformers, NLP, Model Evaluation, Hyperparameter Optimization
- Frameworks & Libraries: PyTorch, TensorFlow, scikit-learn, HuggingFace, Flask
- Data & Experimentation: NumPy, Pandas, Matplotlib, Seaborn, Statistical Analysis, Cross-Validation, Ablation Studies
- Systems & DevOps: Git, Linux, AWS, Power Platform
- Application Development: Android Development, REST APIs, Flask-backed Web Applications
- Languages: English, Hindi, Tamil

PROJECTS & RESEARCH

- **NLU Stress Testing of Figurative Language in Large Language Models**   Aug 2025 – Dec 2025
  - ➤ Built a controlled benchmark of 50 idioms with minimal-context templates for figurative vs literal interpretation.
  - ➤ Evaluated open-source LLMs (Qwen, Mistral, Pythia, SmolLM) under zero-shot, few-shot, and chain-of-thought prompting.
  - ➤ Analyzed confusion matrices and cross-prompt variance, revealing strong prompt sensitivity vs human baselines. Github

- **Video based Cricket Shot Classification using Modified LRCN approach**   Feb 2024 – May 2024
  - ➤ Built an LRCN model (CNN + LSTM) for video shot classification, achieving **95% accuracy**.
  - ➤ Improved temporal–spatial feature learning, outperforming standard CNN baselines.
  - ➤ Delivered a more reliable shot recognition pipeline for sports analytics; presented at IEEE SILCON 2024. Github.

- **IPL-ANALYTICS**   April 2024
  - ➤ Built a Flask-based analytics platform to explore IPL player and team statistics using publicly available datasets.
  - ➤ Implemented interactive views to compare individual performance, team metrics, and head-to-head matchups.
  - ➤ Provided data-driven insights through structured statistical analysis and clean, user-friendly visualization. Github

ROLES AND RESPONSIBILITIES

- **Graduate Teaching Assistant, McGill University, Canada**   August 2025 - Present
  - ➤ Produced video solutions to explain programming concepts.
  - ➤ Graded assignments/exams and assisted with student doubt-resolution.
  - ➤ Supported exam invigilation and course delivery.

EDUCATION

- **McGill University, Montreal, QC, Canada**   2025 - Present
McGill's Master of Science (M.Sc.) Computer Science (Non-thesis)

- **Vellore Institute of Technology, Chennai Campus, Chennai, 600127**   2021 - 2025
Bachelor of Technology in Computer Science and Engineering
CGPA: 8.85

CERTIFICATIONS

- **Microsoft Power Platform App Maker Associate**   2023
Microsoft. Issued Nov 2023

- **AWS Certified Cloud Practitioner**   2024
AWS. Issued Nov 2024
Credential ID: 8469c42d8fe042b7962681ca3eb1a9aa