Megha Chandra Shekar

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EDUCATION

Masters in Data Science, *RMIT University* — 2024 — Melbourne, Australia
- Enrolled in relevant electives, including Machine Learning , Database Concepts and Cloud Computing.
- Recipient of the prestigious Future Leaders Scholarship for international students from India.
- As a Student Ambassador, I engaged in effective teamwork, which significantly enhanced my skills in communication and leadership.

Bachelor's in Computer Science, *SVCE* — 2022 — Bangalore, India
- The final year project titled "Empirical Analysis for Crime Prediction and Forecasting using Machine Learning and Deep Learning Techniques" aims to predict future crime types by analyzing location, time, weather, and historical crime data to improve crime prevention strategies.
- Achievements :
  - Google Cloud Platform, Qwiklabs: I earned skill badges for completing quests on virtual machines, Kubernetes, and BigQuery, showcasing advanced cloud computing expertise.
  - UDYUKTA 2K19, Paper Presentation: I developed an AI chatbot using a Sequence-to-Sequence model and won the best presentation award for its successful Turing Test evaluation and detailed analysis.

PROFESSIONAL EXPERIENCE

Ernst & Young, *Associate Software Engineer* — Oct 2022 – Jan 2023 — Bangalore, India
- Full-Stack Development: Enhanced an employee onboarding portal by optimizing .NET-based backend workflows and integrating SQL-driven data forms. Reduced form submission latency by 15% and added new RESTful endpoints for role-based user access.

RedBlackTree, *Junior Software Engineer* — Aug 2022 – Oct 2022 — Bangalore, India
- Low-Code Full-Stack Development: Designed and developed a task management system using Mendix, reducing overall development time by 30% compared to traditional coding approaches.
- Workflow and UI Logic Automation: Automated form validation and navigation through Mendix's visual logic, improving UI/UX efficiency by 40% and minimizing user input errors.

Bharat Electronics Limited, *Junior Software Engineer* — Apr 2022 – May 2022 — Bangalore, India
- Process Automation and Efficiency: Mastered Camunda BPMN and DMN process modeling, achieving a 30% increase in workflow efficiency and a 25% reduction in manual reporting errors.
- Real-Time Incident Reporting System: Led the creation of an automated system with email and message notifications, reducing emergency response times by 40% and improving coordination between hospitals and police stations.

SKILLS

AI and Machine Learning	Programming Languages	Platforms	AWS	Tools	Innovation
Natural Language Processing (NLP)	R	Windows	S3	git/GitHub	Creative Thinking
	SQL	UNIX	EC2		Problem Solving
	Python				
	JavaScript				

PUBLICATION

Empirical Analysis for Crime Prediction and Forecasting using Machine Learning and Deep Learning Techniques, *International Journal of Advanced Research in Science, Communication and Technology [ISSN: 2581-9429 (Volume-2, Issue-1)] - August 2022*
- This publication aimed to enhance public safety by improving crime prediction accuracy using the Chicago dataset, analyzing factors such as location, time, weather, and historical data.
- It employed four algorithms: Logistic Regression, XGBoost Classifier, Decision Tree, and Multi-Layer Perceptron (MLP), with XGBoost achieving an impressive accuracy score of 82%.

PERSONAL PROJECTS

NLP Based Restaurant Recommendation System
- Developed Collaborative Filtering Model: Created a Python-based recommendation system with a 0.85 average correlation score, suggesting restaurants based on user behavior.
- Enhanced User Experience: Provided personalized, highly-rated restaurant recommendations, boosting user satisfaction.
- Technologies Utilized : Applied Python and NLP techniques to analyze reviews and generate precise recommendations.

Accident Detection Using Camera Surveillance Video
- Developed Smart Traffic Control: Implemented an intelligent traffic management system that optimizes signal timings, reducing congestion by up to 30%.
- Real-Time Incident Monitoring: Integrated real-time monitoring to detect and respond to accidents within seconds, improving emergency response times by 25%.
- Technologies utilized : Python and Scikit-learn.

LANGUAGES

English   **Kannada**   **Marathi**
   IELTS:6.5

AWARDS

Google Cloud Platform, *Qwiklabs*
- Completed quests involving practical scenarios, such as deploying virtual machines, managing Kubernetes clusters, and using BigQuery for data analysis.
- Gained hands-on experience with GCP services, enhanced cloud skills, and earned skill badges upon completing each quest.

UDYUKTA 2K19, *Paper Presentation*
- Developed an AI-based chatbot using a Sequence-to-Sequence model, which successfully underwent a Turing Test evaluation.
- Gave a comprehensive presentation on its architectural intricacies, functional blocks, layered components, and software methodology.
- Received recognition for delivering the best presentation at the event.

ICT Academy, *Youth Talk*
- This Youth Talk titled *"Junk Foods Popularity Lies on Marketing,"* examines the role of aggressive marketing strategies in driving the popularity of junk foods.
- Its goal was to raise awareness and empower young people to make healthier choices, even when faced with compelling advertisements.