

PRAKASH MAHESHWARAN

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science <i>Master of Science in Computer Science, Concentration in Artificial Intelligence</i> Cumulative GPA: 3.74/4.00 Clark Fellowship Coursework: , , ,	<i>Expected March 2026</i>
Vellore Institute of Technology, International Center for Education and Research, Bangalore, India <i>Postgraduate Program in Computer Science (AI Track)</i> Cumulative GPA: 3.80/4.00 Coursework: , , ,	<i>March 2024</i>
Anna University, Chennai, India <i>Bachelor of Science in Information Technology</i> Cumulative GPA: 3.30/4.00 Coursework: , , ,	<i>March 2023</i>

TECHNICAL SKILLS

Languages: Python, JavaScript, C, SQL, Postman
Frameworks: Flask, Django, Node.js, React.js, Express.js, FastAPI
Software and OS: Linux, Git, Selenium, Docker, UiPath, AWS, Conda
Additional: Tableau, PowerBi, Blender, Figma, Wordpress, Firebase
Certifications: Certified JavaScript Developer (CIW), AWS Certified Solutions Architect – Associate, AWS Certified Machine Learning – Specialty, IBM Data Science Professional Certificate

PROFESSIONAL EXPERIENCE

UNIQUE Technologies, Audio and Speech Processing Research Internship Chennai, India <ul style="list-style-type: none">Developed novel audio processing techniques using deep learning frameworks, achieving a 15% improvement in speech recognition accuracy.Collaborated with researchers to design and implement large multimodal models, leveraging expertise in natural language processing and speech processing.Published a research paper in a top-tier conference, showcasing the effectiveness of the proposed audio processing methods.	<i>May 2021 – February 2022</i>
Sun Networks, Multimodal Large Model Development Internship Vellore, India <ul style="list-style-type: none">Designed and implemented a large multimodal model using TensorFlow, integrating text, speech, and vision modalities to achieve a 20% increase in model reasoning abilities.Worked with a team to develop a safe self-improving model, incorporating techniques from reinforcement learning and game theory to ensure robustness and stability.Contributed to the development of a post-training recipe, optimizing model performance and reducing computational overhead by 30%.	<i>January 2020 – December 2020</i>

PROJECT EXPERIENCE

AI Research Project: Deep Learning for Audio Processing Chennai, India <ul style="list-style-type: none">Developed a deep learning model for audio processing, achieving state-of-the-art performance on the dataset.Collaborated with a team of researchers to design and implement the model.Published the results of the project in a conference paper.	<i>July 2022 – February 2023</i>
AI Research Project: Natural Language Processing for Sentiment Analysis Chennai, India <ul style="list-style-type: none">Developed a natural language processing model for sentiment analysis, achieving high accuracy on the dataset.Collaborated with a team of researchers to design and implement the model.Published the results of the project in a conference paper.	<i>March 2022 – July 2022</i>
Wind Energy Renewal Prediction Vellore, India <ul style="list-style-type: none">Contributed to a wind energy prediction model using real-time weather data, increasing accuracy by 15%.Analyzed historical weather data to identify key factors impacting wind energy production.Developed predictive models using TensorFlow to estimate energy output based on weather forecasts.Collaborated with domain experts to validate model predictions and improve accuracy.	<i>May 2021 – October 2021</i>

WHITE PAPERS & PREPRINT PUBLICATIONS

AI Research Paper: Deep Learning for Audio Processing International Journal of AI Research <ul style="list-style-type: none">Developed a deep learning model for audio processing, achieving state-of-the-art performance on the dataset.Collaborated with a team of researchers to design and implement the model.Published the results of the project in a conference paper.	<i>April 2023</i>
AI- Preprint Archive <ul style="list-style-type: none">Developed a natural language processing model for sentiment analysis, achieving high accuracy on the dataset.Collaborated with a team of researchers to design and implement the model.Published the results of the project in a conference paper.	<i>January 2023</i>

LEADERSHIP EXPERIENCE

Students Guidance Cell, Event Coordinator Chennai, India Coordinated and organized over 15 student development events, improving engagement and support services for 500+ students across various academic programs.	<i>28 Months</i>
U&I, Volunteer Teacher (Math & Computer Science) Vellore, India Taught math and computer science to underprivileged students for 12 months, helping improve academic performance and providing accessible education to over 30 students.	<i>12 Months</i>

ACHIEVEMENTS AND AWARDS

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