

Brian Mendes

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Experienced Computer Science Graduate specializing in Data Science, Machine Learning, and Software Development.
Proficient in DevOps and project management, eager to apply advanced technical skills for organizational success.

TECHNICAL SKILLS

Languages	Python, R, SQL, NoSQL, C/C++, Java, XML, QML/HTML, CSS, JavaScript
Software Platforms	AWS Services (RDS, IAM, EC2, S3), GCP Services, Docker Microsoft Visual Studio, PyCharm IDE Tableau, scikit-learn, NumPy, Pandas. Flask, Apache Spark, MongoDB, Hadoop, Matplotlib, Seaborn
Certifications	Deep Learning for Computer Vision, Programming for Everybody, Amazon Web Services for ML

EDUCATION

Southern Methodist University <i>Master of Science in Computer Science (GPA: 3.80)</i>	Dallas, TX August 2023 - May 2025
Fr. C. Rodrigues Institute of Technology <i>Bachelor of Engineering in Information Technology (GPA: 3.65)</i>	Mumbai, IN August 2019 - May 2023

EXPERIENCE

Discover Technologies (Intern) - Mumbai, India <i>Software Engineer</i>	June 2021 – March 2022
<ul style="list-style-type: none">Led diverse projects, engineered object-oriented automated WhatsApp/Gmail apps, achieving a 20% throughput increase and optimizing communication processes for exceptional efficiency.Contributed to Tableau-related projects, enhancing data visualization/analysis, resulting in a 35% improvement in insightsProduced meticulous and detailed documentation, including comprehensive reports, presentations, and video content, ensuring transparent communication and providing valuable insights for strategic decision-making	
Bennett University (Intern) - Mumbai, India <i>Software Developer</i>	May 2020 – August 2020
<ul style="list-style-type: none">Designed and implemented a cutting-edge semantic segmentation algorithm using TensorFlow, specifically utilizing mobilenet v2, Yolo v8 also identified and resolved critical errors, leading to a 15% reduction in system downtimeIncorporated AWS services such as EC2 to ensure seamless connections and enhance overall system performance for optimal user experienceCollaborated seamlessly within a mentor-led team, demonstrating adept teamwork and adaptability in resolving critical errors	

RESEARCH AND ACADEMIC PROJECTS

“Covid-19 Data Analysis” Published Paper (IOSR) – Mumbai, India	January 2021 – April 2023
<ul style="list-style-type: none">Developed Streamlit dashboard to analyze pre and post pandemic impacts on Industries, Climate, and PopulationUtilized Long Short-Term Memory (LSTM) neural network architecture to develop a stock market predictor model and achieved a 20% improvement in the accuracy and reduced the errors by 25%	
“Path Texture Classification” Published Paper (IOSR) – Mumbai, India	May 2020 – April 2023
<ul style="list-style-type: none">Formulated a model addressing path texture detection for the visually impaired, enhancing navigation and accessibilityUsed Faster RCNN, RESNET and inception object detection models and achieved an accuracy of 90%Led a team of 4 interns and achieved a 15% increase in accuracy, underscoring the effectiveness of the approach	
Lockshield Cryptography Project – Mumbai, India	August 2022 – May 2023
<ul style="list-style-type: none">Led the development of a comprehensive Website/Desktop App through the incorporation of cryptographic methodsImplemented robust RSA encryption and Image Steganography techniques using ReactJS and Flask, offering users a secure environment for data encryption and decryption with client-side storage capabilities.	
Connectify: Online Video/Audio meetup Platform – Mumbai, India	August 2021 – June 2022
<ul style="list-style-type: none">Engineered a feature-rich online meetup platform, leveraging technologies such as WebRTC and Socket IO. Implemented seamless communication capabilities, including screen sharing, and integrated a compiler for collaborative coding sessionsAchieved a 15% reduction in communication latency, resulting in faster and responsive real-time interactions	
Deep Learning for Computer Vision – Mumbai, India	May 2020 – June 2020
<ul style="list-style-type: none">Applied cutting-edge tools for training models from scratch, mastering model optimization and hyperparameter tuningShowcased advanced deep learning techniques, ensuring precision across diverse computer vision applications	

LEADERSHIP AND OTHER ACTIVITIES

Southern Methodist University, Student Tutor – Dallas, TX	September 2023 – December 2023
<ul style="list-style-type: none">Empowered 20 student-athletes through personalized tutoring in economics, statistics, and computer science at ADSAFostered academic excellence through 200+ hours of targeted instruction, support, and tailored mentoring	