

SREEJITH MENON

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CAREER FOCUS: MACHINE LEARNING ENGINEER

Over 8 years of industry experience, including 6 years in Robotics and 3 years in Machine Learning (ML). Master's Degree, with ML specialization. Strong knowledge base in Advanced ML Techniques; success in building an end-to-end ML pipeline (feature engineering to production), as well as ML and Deep Learning models. Consistency in achieving top-priority goals.

Overview:

- Deep passion for coding, engineering, and building solutions, including highly intelligent product features.
- Excel in learning new, complex concepts and technologies quickly, incorporating learning into design work.
- Interact effectively with team members from a variety of cultural backgrounds and levels of experience.
- Success in delivering world-class user experiences to over 100 companies across 3 continents.

Selected Technology Skills:

Artificial Intelligence (AI)/Machine Learning · Swift · SwiftUI · Xcode · Combine · MVC · GitHub · CocoaPods · RESTful APIs · Firebase · Bluetooth · Realm · Python · TensorFlow · PyTorch · Keras · Jupyter Notebook

PROFESSIONAL EXPERIENCE

INVENTO ROBOTICS – 2017-Present (*Producer of robots for seniors with cognitive issues to provide safety and companionship-related services; robots in the senior's home provide an avatar for remote nurses 24x7. The company additionally produces service robots for banks, malls, and events.*)

Lead ML Engineer / Consultant / Summer Internship (2020-Present)

Currently working as a Consulting Engineer for Invento Robotics in the U.S. (Austin, TX location). Direct and guide ML activities, moving from Object Recognition to Face Recognition, NLP, and Speech Recognition. Tasked with building an end-to-end ML pipeline, from data ingestion and feature engineering to model training, deployment, and scaling of the model in production.

- **Researched, developed, and productionized novel ML and Deep Learning models** within a multi-modal setting, including text, image, video, and audio.
- **Worked on AI safety initiatives and goals**, building the highest-quality moderation models to detect unwanted content effectively.
- **Gained valuable knowledge and experience in multiple areas, including the following:**
 - **Advanced ML techniques**, including Classification, Prediction, Recommender Systems, Anomaly Detection, Optimization, and Privacy Preserving Machine Learning.
 - **Statistical data analysis techniques**, including linear models, multivariate analysis, stochastic models, and sampling methods.
 - **Various scientific computing and analysis packages**, including NumPy, SciPy, Pandas, scikit-learn, dplyr, and ggplot2.
 - **Large-scale structured and unstructured data**, including data analysis and management.
 - **Data visualization libraries**, including Matplotlib, Pyplot, and ggplot2.
 - **Coding** in Python and standard ML frameworks, including PyTorch, Keras, and Tensorflow.

Lead iOS Developer (2017-2021)

Hired to work on the mobile app side of product development, starting in Android and migrating to iOS within a few months (joined the core founding team). Architected verticals for Medical Diagnosis & Healthcare, Customer Support Queries, Banking & Personal Finance, Insurance Pricing, Retail Automation, and Visitor Management System. Derived insights on users' prevailing subjective opinions using Google Sentiment Analysis.

- **Contributed significantly to robots that were deployed in 100+ companies** (across 3 continents) and featured in multiple international media outlets such as CNN, Forbes, and The Guardian.
 - **Showcased the robot to Indian Prime Minister Narendra Modi and WH advisor Ivanka Trump** at the Global Entrepreneurship Summit 2017 and Consumer Electronics Show 2019 (Las Vegas, NV).
- **Achieved 97.5% accuracy in embedding Microsoft Real Time Multiple Face Recognition**, as well as 80% accuracy in designing and integrating a Google multilingual, 30+-language, contextual NLP model and 95.6% accuracy in adding the capability for Human & Face Detection with integrated tracking.
- **Built the entire framework for the upgrade from Swift to SwiftUI.**
- **Applied Vision algorithms for addressing Object Localization and Recognition tasks**, resulting in expedited processing of 155 frames per second.
- **Created the Human Pose and Hand Pose Estimation with the Apple & Google Vision framework**, achieving an average percentage of correct parts at 0.61.
- **Performed OCR and Text Detection with Google Cloud Platform** in natural scene images capable of running at approximately 13 FPS on 720p images.
- **Used the Apple and Google Speech Recognition framework on over 30 languages**, resulting in national accessibility. Additionally, incorporated the Apple Speech Synthesis Neural Audio Generation model that reached the human level.
- **Brought top logos to Invento's system** by writing a platform for integrating 3rd party client chatbots.

BITNOMIX LABS – 2016-2017 (*Multi-service startup company with 10 employees.*)

Senior Android Developer

Joined the Android team to build Android apps, along with contributing to UI/UX development.

- **Built a software stack that specialized in Personalized Marketing**, using push notifications and location, of Internet-related services and products (27 separate consumer services).
- **Obtained a 65% click-through rate and 33.6% conversion rate** by using demographics, in-app behaviors, and preferences to provide users with hyper-personalized offerings.

PRIOR POSITIONS:

Android Developer, Kapture (2015-2016) – Constructed health and fitness apps with sensors and Bluetooth to provide users with personalized diet plans and fitness guidance. Served as a Technology Consultant for other new startups and assisted with entrepreneurial events.

Android Developer, Senega Systems (2013-2014) – Programmed and maintained multiple B2C, e-commerce applications for U.S. clients in Retail and Wholesale (with a Payment Gateway). Designed and executed responsive, flexible, and visually appealing apps, leading to a 15+% increase in downloads.

EDUCATION

MS in Computer Science, Specialization in ML

Stevens Institute of Technology – Hoboken, NJ – 2023

Graduate Courses/Internship – Introduction to Text Mining/Natural Language Processing; Machine Learning: Fundamentals & Applications; Deep Learning; **Summer Internship, AI**; Artificial Intelligence; Knowledge Discovery & Data Mining; Web Programming; Text Mining & Information Retrieval; Causal Inference; Mobile Systems & Applications

Bachelor's Degree in Computer Science

New Horizon College of Engineering – Bangalore, India – 2015