

Jayanth Appalla

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EDUCATION

- Master of Science in Computer Science, The University of Illinois at Chicago Aug 2021 - Dec 2022
GPA: 3.22/4.0
- Bachelor of Engineering in Computer Science, National Institute of Engineering, Mysore, India Aug 2016 - Aug 2020
GPA: 9.09/10

PUBLICATIONS

- **Anish Aralikatti, Jayanth Appalla, S. Kushal, G. S. Naveen, S. Lokesh, B. S. Jayasri**
“Real-time Object Detection and Face Recognition System to Assist the Visually Impaired”, Journal of Physics: Conference Series, Volume 1706 (IOP Publishing), 2020, First International Conference on Advances in Physical Sciences and Materials, Coimbatore, India (ICAPSM 2020)

SKILLS

- **Languages and frameworks:** Python, R, SQL, Java, C#, Spring, Spring Boot, Django, TensorFlow
- **Tools and Libraries:** Azure Databricks, Azure DataFactory, Snowflake, Apache Kafka, Apache Spark, Pyspark, Delta Lake, PowerBI, Tableau, SAP Analytics Cloud, Numpy, Pandas, SciKitLearn, NLTK, Huggingface Microsoft Visual Studio, Git, Maven, Gradle
- **Platforms:** Windows, Linux, macOS, Android
- **AI/ML and GenAI:** RAG, hybrid search, vector databases, Model COntext Protocol, LLM Application Development

EXPERIENCE

- **SPV Consulting LLC, Marlton, NJ(Remote)** Dec 2024 - Dec 2025
Data Engineer
 - Built and optimized data pipelines using azure databricks for gigabyte-scale data using partitioning, Z-ordering and caching mechanisms to improve ETL runtimes.
 - Engineered scalable data workflows to process, cleanse, and aggregate large datasets across Bronze, Silver, and Gold layers, enabling efficient downstream analytics and machine learning use cases.
 - Used Git for version control to ensure seamless tracking of development progress.
 - Integrated Databricks to powerBI to create dashboards and interactive reports leading to enhanced operational efficiency.
- **Amazon Web Services, Seattle, WA** Aug 2023 - Oct 2024
Software Development Engineer
 - Contributed to the AWS DynamoDB team, developing and maintaining a scalable service enabling customers to create multi-TB backups, import high volumes of data, and restore data into the database with reliability and performance.
 - Enhanced the import system by increasing the S3 object count limit to 100,000 from the existing 10,000 resulting in an average reduction of 20% in import time for large datasets.
 - Responsible for service operations, monitoring dashboards, metrics, and performance indicators to keep the service running at times of very high traffic.
 - Managed on-call operations requiring immediate bug fixes that impact import and restore operations with an average response time of 2 hours.
- **I-ConnectResources Inc., Columbus, OH** Feb 2023 - Aug 2023
Programmer
 - Worked on ITSM modules including Incident, Problem, Change, and Request Management using ServiceNow, contributing to streamlined service delivery and improved operational efficiency.
 - Assisted with ITOM modules such as CMDB, Discovery and integrated AWS and ServiceNow to discover AWS resources.
 - Partnered with multiple teams to create self-service modules like service catalog and catalog item creation.
 - Managed ServiceNow environment as a Certified ServiceNow Administrator and worked on Appian application modules as a certified Appian developer.
- **Incture Technologies, Bangalore, India** Oct 2020 - May 2021
Associate Software Engineer
 - Developed dashboards and reports using SAP Analytics Cloud, Python, and R, delivering actionable insights to clients.

- Managed data from multiple sources of an oil and gas client to build an SAP analytics dashboard enhancing the efficiency by 30%.
- Built backend microservices in Java/Spring MVC for a geospatial analytics application, leveraging Esri ArcGIS APIs.
- Collaborated with teams to develop *Savory Stop*, an e-commerce platform, implementing 14 backend Java microservices with Spring MVC.

- **Hindustan Unilever Pvt. Ltd, Bangalore, India**

Aug 2019 - Nov 2019

- *Software Development Intern*

- Contributed to the Chatbots and NLP team, developing a Russian-language bot for email responses using Google Dialogflow.
- Created a Python script to convert multiple file formats into text for GRASP, an in-house document search and conversion tool.
- Built an MVC application using C and .NET to replicate Microsoft Power BI for internal usage.

PROJECTS

- **In-Vehicle Coupon Recommendation System**

Spring 2022

- *Course Project*

- Examined 13,000 driving scenarios with 27 attributes such as weather, hour, and profession.
- Achieved 80% accuracy in predicting acceptability of coupons using logistic regression and decision trees.
- Created and contrasted 5 machine learning models to optimize model accuracy.

- **UIC Web Search Engine**

Spring 2022

- *Course Project*

- Designed and implemented a search engine restricted to the UIC domain.
- Scraped and indexed over 3000 web pages and applied text preprocessing and vector space models.
- Ranked query results using cosine similarity, enabling retrieval across a multi-thousand corpus.

- **Real-time Object Detection and Face Recognition to assist the visually impaired**

Spring 2020

- *Undergraduate Research/Project*

- Built an android app which uses technologies such as deep learning and neural networks to detect objects and people.
- Processed real-time video streams with Apache Kafka and frame-level analysis.
- Applied YOLO for object detection and Google API for text-to-speech conversion.

CERTIFICATIONS

- Microsoft Certified Fabric Data Engineer, 2025
- Databricks Certified Associate Data Engineer, 2025
- Microsoft Certified Administrator Associate, 2025
- Tableau Certified Desktop Specialist, 2024