

ADVAITH VENKATSUBRAMANIAN

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EDUCATION

Master of Science, Computer Science

Arizona State University

May 2026

Tempe, Arizona, USA

Coursework: Algorithms, Machine Learning, Data Mining, Data Processing

Bachelor of Technology, Computer and Communication

Manipal Academy of Higher Education

July 2021

Udupi, India

Coursework: Data Structures, Databases, Machine Learning, AI, Predictive Analysis, Pattern Recognition, Operating Systems

SKILLS

Languages / Libraries: C, C++, Python, HTML/CSS, Pandas, Scikit-learn, Go, R, ReactJS, SQL

Frameworks: TensorFlow, Flask, Apache Spark, PyTorch, Hadoop

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly

Industry Technologies: Linux, AWS (EC2, S3, Textract), Azure, Git, PostgreSQL, Office 365, Dataiku

PROFESSIONAL EXPERIENCE

Data Scientist

Wabtec Corporation

October 2023 - August 2024

Bangalore, India

- Constructed a Machine Learning predictive model capable of predicting prices of locomotive parts with an accuracy of ~87% by leveraging Python, H2O framework and data preprocessing principles.
- Led the development of an Optical Character Recognition (OCR) application to automatically read data from inspection sheets. Reduced time taken to manually digitize data by ~30%. Built using AWS Textract, Python, Postgres, Flask and AWS EC2.

Data Engineering Specialist

Wabtec Corporation

July 2021 - September 2023

Bangalore, India

- Implemented an OCR pipeline to read files from an FTP server, perform character recognition on documents and generate configuration files based on document type. Helped to cut down on third party vendor costs.
- Crafted an operations chatbot capable of helping users find links to applications, policies and documents. Instrumental in making all resources available via a single point of reference.

Intern

Wabtec Corporation

January 2021 - July 2021

Bangalore, India

- Created an operations chatbot using Microsoft Bot Framework capable of incident management, helping users in troubleshooting issues and service request management on ServiceNow.
- Leveraged Fuzzy Matching and Cosine Similarity to group together similar customers on several attributes from a dataset of ~120k records. Helped in reducing redundancy and processing time.

Intern

Mahindra and Mahindra Limited (M&M Ltd)

May 2019 - July 2019

Mumbai, India

- Designed an interactive chatbot with principles of Natural Language Processing (NLP), Rasa NLU and the Rasa Core framework.

PROJECTS

Identification of Age-Related Conditions

Python, TensorFlow

- Developed a model to predict whether a person is suffering from a particular health condition or not. Data consists of measurements of various health characteristics. Achieved accuracy of 93%.

Game Catalog Application

ReactJS, HTML/CSS, Vite

- Created an interactive application to browse and view an extensive catalog of games. Added search functionality to filter out games. Developed using.

Hewlett Packard Enterprise In-Semester Project

Natural Language Processing, Python, Rasa NLU & Core, SQL

- Led the in-semester team project conducted by HPE where we formed an interactive chatbot to help users troubleshoot issues with HPE devices, get access to product manuals or trigger automatic emails to customer care.