Jayesh Prasad Anandan

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Skills

Programming Languages & Databases: **Python**, R, Java, C, C++, Unix Shell, Scala, Spark, **MySQL, PostgreSQL**, MongoDB

Frameworks and Libraries: **PySpark**, Tensorflow, Hadoop, PyTorch, SparkML, Pandas, NumPy, CI/CD, MuleSoft, Anypoint

Tools: **Databricks**, **Azure Data Factory**, DevOps, **AWS Cloud**, **Tableau**, Google Cloud, Synapse, ArcGIS

Certifications: **Azure Data Engineer**, **AWS Data Engineer**, **Mulesoft Anypoint**, **Alteryx**, Deep Learning, Machine Learning

Experience

Data Engineer | HSK Technologies Inc. | Indiana Department of Health | *Full-Time Contract*   November 2024 – Present
- Facilitated the ingestion of 150 M+ rows and 100 GB+ tables from on-premise, external, and network storage, as measured by seamless integration into Synapse Data Warehouse, by leveraging Microsoft Azure Data Factory, Logic Apps, Azure Data Lake
- Enhanced data quality for the Mom's Helpline Project, as evidenced by standardized and accurate datasets, by developing and implementing Record Linkage Algorithms in Databricks and ingesting the results into Azure Synapse Data Warehouse
- Implemented an automated CI/CD deployment pipeline using Azure DevOps and Shell scripts to streamline Azure Data Factory code releases, eliminating manual publishing and reducing deployment time by 66%

Marketing Data Analyst | UCM, Indiana University, Bloomington | *Part-Time*   March 2025 – June 2025 & April 2023 – May 2024
- Enhanced insights for targeted marketing strategies at UCM, as measured by comprehensive tracking across all 10 campuses, by utilizing Google Analytics, Google Tag Manager, and Google Search Console
- Alleviated reporting time from 36+ hours to 2 hours, by engineering an automated data extraction system for the domain migration of 750 campus websites using Selenium, Python, and Excel
- Ensured a seamless domain migration process, as evidenced by efficient management of over 500 tags and triggers, by implementing an innovative strategy within Google Tag Manager

Senior Consultant | Hoosier Community Network | *Full-Time Volunteer*   July 2024 – December 2024
- Led 25+ data scientists and developers across 8+ projects, delivering on time and achieving high client satisfaction through effective performance evaluations
- Scraped over 20,000 web pages from open-source platforms, as measured by a fully cleaned and stored dataset in PostgreSQL, by engineering data extraction scripts using Python
- Minimized manual data handling time by 28%, by automating ETL processes using Alteryx Designer and Tableau Prep to efficiently extract, transform, and load data from multiple sources

Data Scientist | Project 990 Inc. | *Full-Time Research*   August 2024 – October 2024
- Amplified the data ingestion pipeline, resulting in a 47% improvement in data quality, by resolving downstream issues using a custom Python package in Alteryx Workflow
- Optimized data ingestion, reducing time by 32%, by implementing an efficient pipeline to ingest terabytes of data into a relational database, ensuring faster availability for business-critical analytics

Data Engineer | TATA Consultancy Services Limited, Chennai, India | *Full-Time*   November 2020 – July 2022
- Improved project management effectiveness, as evidenced by streamlined dashboard creation and data trend communication, by developing an AWS-based ETL pipeline with PySpark, Apache Airflow, and CI/CD
- Elevated data transfer efficiency by 68%, by accelerating data retrieval and writing speeds with JDBC and Python utilizing a powerful parameter
- Diminished data ingestion time by 23%, by automating metadata generation for financial data ingestion into AWS Cloud using a metadata-driven framework with Amazon EMR and EC2

Machine Learning Project Intern | TATA Consultancy Services Limited, Chennai, India | *Full-Time*   December 2019 – April 2020
- Increased customer satisfaction by 21%, by innovating a language generator model using Tensorflow & Keras that automatically generated tailored user stories, enhancing user engagement

Education

Indiana University - Bloomington, Indiana   May 2024
Master of Science in Data Science   *GPA - 3.97*

Anna University - Chennai, India   May 2020
Bachelor of Engineering in Electrical and Electronics Engineering

Projects

Psychological Feature Space using Vision Transformers | *Python, Keras, Computer Vision*   April 2024
- Achieved a 50% average correlation coefficient across 8 MDS dimensions, by predicting Multi-Dimensional Scaling (MDS) values through image classification to understand human categorization
- Improved model accuracy and performance, by training and fine-tuning an ensemble of 10 deep learning models, including DenseNet and Vision Transformers