Anurag Hambir

(812) 606-3617 | anuraghambir@gmail.com | linkedin.com/in/ah10 | anuraghambir.github.io

SUMMARY

- Passionate Data Science and Engineering professional with 3+ years of experience in recommendation systems, natural language processing, computer vision, predictive modeling, deep learning, time-series forecasting, and cloud platforms
- Worked on projects in Media, Banking, Insurance, Financial Services, Social Science, and Information Technology domains
- Strong analytical and problem-solving abilities combined with effective cross-functional collaboration and team leadership skills

EDUCATION

Indiana University Bloomington, Master of Science in Data Science; GPA: 3.9/4.0Bloomington, INCourses: Machine Learning, Artificial Intelligence, Graph Analytics, Cloud ComputingMay 2023

Savitribai Phule Pune University, Bachelor of Engineering in Computer Engineering; GPA: 3.7/4.0 Pune, India Courses: Data Structures, Big Data Analytics, Data Management, Software Engineering, Business Intelligence *June 2018*

SKILLS

Languages: Python, Java, R, C, C++

Databases: MySQL, PostgreSQL, MongoDB, Hive, Elasticsearch, Big Query

Machine Learning: Scikit-learn, SpaCy, NLTK, CoreNLP, XGBoost, Pandas, Numpy, TensorFlow, PyTorch, Keras

Tools/Frameworks: AWS, GCP, Snowflake, Hadoop, Spark, Pig, Airflow, GIT, REST API, Kibana, JIRA, Docker, Tableau,

Flask, Microsoft Office Tools

Certifications: Data Analysis using PySpark

WORK EXPERIENCE

Data Scientist, Social Science Consulting LLC, Bloomington, IN, US

August 2023 – Present

- Employed advanced large language models (BERT and RoBERTa) in conjunction with PyTorch (Python) on a **300,000**-text data set to create precise contextual word embeddings for generating personalized recommendations
- Designing and leading the development of Graph Neural Network-based Recommendation system development (GraphSAGE, GATConv), enabling personalized foundation suggestions for grant recipients and promoting reciprocal recommendations

Data Scientist, ProMazo Inc., Bloomington, IN, US

June 2022 – *December* 2022

- Developed a customer retention model using Python for a Fortune 500 banking and insurance client, boosting the F-1 score by 70% through the XGBoost model and genetic algorithm, resulting in projected savings of \$269,000 from retained customer
- Utilized SQL and Snowflake to add 50 new features to the Attrition model, resulting in a 5% accuracy improvement
- Optimized LSTM hyperparameters via grid search and cross-validation, boosting churn rate prediction precision by 15%

Data Scientist, HT Media Ltd, Pune, MH, India

July 2020 – June 2021

- Engineered a scalable recommendation system with Python, leveraging profile-based user segmentation and Elasticsearch, and orchestrated deployment using Docker on AWS, contributing to a **1M**+ increase in OttPlay application downloads
- Implemented comprehensive data-driven and A/B testing strategies to evaluate the performance of the recommendation engine, resulting in a 15% increase in click-through rates
- Collaborated with cross-functional teams, employing statistical modeling and data analysis, to extract insights from user preferences and improve content recommendations, resulting in a 20% increase in average time spent on the platform
- Developed Tableau visualizations for competitor ad data analysis, generating 10% more leads for new client acquisition
- Designed and implemented a Python ETL pipeline on AWS EC2 server for extracting data from over 100 OTT websites, efficiently managing data storage and retrieval through MongoDB, resulting in over 40% reduction in data collection costs
- Managed various big data projects involving large unstructured data sets, while offering guidance and mentorship to a team of **four** engineers

Data Engineer, Persistent Systems, Pune, MH, India

August 2018 – November 2019

- Implemented a PySpark (Python) ETL pipeline for sentiment analysis on clients' email data, employing Stanford's CoreNLP library and SpaCy, and delivered weekly client satisfaction Tableau reports to the CEO
- Processed and analyzed email data stored in Hadoop, through PySpark and stored the results in Hive tables
- Optimized the performance of the data pipeline by integrating Kafka, reducing the total processing time by 50%