

JUHI ANAND

Chicago, IL | ajuhi31@gmail.com | (773) 270-0091 | [LinkedIn](#)

EDUCATION

University of Illinois Chicago: Master of Science in Business Analytics GPA: 4.0	Chicago, USA, 2025
University College Dublin: Master of Science in Computer Science GPA: 3.9	Dublin, Ireland, 2020
RGPV University: Bachelor of Engineering in Computer Science CGPA: 8.36	India, 2014

SKILLS

Programming: Python, Bash Scripting, SQL, PostgreSQL
Gen AI: ElevenLabs, n8n, Gemini 2.0, GPT 4.0, Langchain, Groq, Hugging Face, Loveable
Data Techniques: Supervised and Unsupervised Machine Learning, Natural Language Processing, Exploratory Data Analysis (EDA), Web Scraping, Data Visualization, ETL Scripting, Time-Series Forecasting, Prompt Engineering
Libraries/Frameworks: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Beautiful Soup
Cloud Technologies: Amazon Web Services (Kinesis, Glue, Lambda, IoT, S3, DynamoDB, Redshift, CloudWatch)
Tools: Apache Airflow, Hive, HBase, Zookeeper, Oozie, SSIS, SSAS, SSRS, Grafana, Tableau, MS Excel, Weights & Biases, MySQL, Timescale, Docker

PROJECTS

TikTok Mental Health Analysis

- Leveraged **multimodal LLM** (Gemini 2.0) to extract user demographics, PHQ-9 depression symptoms, and emotional cues from TikTok videos, enabling **data collection** for structured analysis of mental health signals.
- Conducted in-depth EDA and applied **Negative Binomial Regression** to **identify key drivers of engagement**, explaining **45% of the variance** in the viewer interaction with mental health-related content.

Empathia: AI-Powered Job Application Assistant

- Built Empathia, a voice-first AI assistant leveraging **ElevenLabs** and **GPT-4** to capture conversational input and generate personalized resumes and cover letters, with a focus on accessibility and inclusive design.
- Designed and developed an automated modular **n8n workflow** to orchestrate voice interaction, prompt processing, document generation, and email delivery for a seamless, hands-free user experience.

Prostate Cancer Survival

- Executed survival analysis using regression techniques to predict 7-year prognosis for prostate cancer patients, achieving a **65% prediction accuracy**.
- Performed feature engineering, exploratory data analysis, and statistical testing to **identify key clinical predictors**, driving data-informed decisions in patient care.

EXPERIENCE

VRM TECH	Dublin, Ireland
Data Engineer	Oct 2020 – Apr 2021
<ul style="list-style-type: none">Analyzed ~1.5M records of high-frequency energy utilization data and developed time-series forecasting models, achieving an R² of 0.87 that resulted in accurate energy forecasting and optimized maintenance scheduling.Migrated legacy data pipelines to AWS serverless ETL architecture using Python, SQL, Kinesis, Glue, and Lambda, reducing data processing latency from 15 minutes to under 1 minute.Built real-time Grafana dashboards for critical operations, reducing analysis time by 70% and accelerating insights across teams.	

Data Science Intern	Jul 2020 – Sep 2020
<ul style="list-style-type: none">Conducted statistical EDA to explore relationships between Green Infrastructure and Air Quality datasets, leading to 15+ green asset deployments in high-risk pollution areas and providing actionable insights for sustainable urban planning.Built a proof-of-concept monitoring system using Timescale DB and Grafana, featuring real-time alerts and interactive dashboards; approved as a full-scale project and implemented in production to improve observability and accelerate cross-team decision-making.	

AMDOCS	Pune, India
Software Developer	Jun 2014 – Jul 2019
<ul style="list-style-type: none">Optimized data-driven marketing campaigns and segmentation strategies by analyzing customer behavior with HBase, HiveQL, and Python, leading to higher engagement and increased plan upgrades.Developed an automation script to expedite Call Detail Record (CDR) stream processing, restoring real-time campaign flow in production by eliminating 50% of the CDR backlog.Ensured stability and efficiency of distributed data workflows by maintaining system health and performance using Hive, Oozie, and Icinga on the MapR platform.Led scalable solutions in Agile projects by integrating CI/CD practices, automating testing and deployment, and accelerating client-requested feature delivery from ~1-2 weeks to a few days.Provided production support and led cross-functional collaboration for Order Management, Customer Resource, and Customer Service Management applications, consistently meeting deadlines and enhancing client satisfaction.	

CERTIFICATIONS & ACHIEVEMENTS

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| • AWS Cloud Practitioner , Amazon Web Services | Sep 2022 |
| • Data Engineering with AWS , Udacity Nanodegree | Apr 2023 |

COMMUNITY CONTRIBUTIONS

- Mentored under-resourced youth through the **'Mentor-Together' NGO**, fostering their academic and personal growth.
- Participated in Amdocs **Corporate Social Responsibility** (CSR) program **'Blossoms'**, contributing to social impact initiatives.