

# Akhilesh Patil

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## EDUCATION

**University of Colorado Boulder**  
*Master of Science in Data Science*  
**Ramaiah Institute of Technology**  
*Bachelor's in Computer Science*

*Boulder, CO*  
*Aug 2022 - May 2024*  
*Bengaluru, India*  
*Aug 2015 - May 2019*

## SKILLS

**Programming:** Python, SQL, R, C++, Javascript

**Frameworks:** Pandas, NumPy, Keras, TensorFlow, PyTorch, Plotly, Flask, Hugging Face, Langchain

**Industry Knowledge:** Database Management, ETL (Extract, Transform, Load), Spark, Airflow, Container Orchestration - Docker, Agile Methodology, CI/CD Pipeline Design, Web Services Development (Flask, Django), SQL

**Cloud Technologies:** Amazon Web Services, Google Cloud Platform, I.B.M Watson Cloud

## EXPERIENCE

**idrv Inc.**  
*Data Scientist, Business Development & Operations*

*Broomfield, CO*  
*Jan. 2024 – Present*

- Developed and deployed an AI model for real-time impairment detection using smartphone sensor data, leveraging autoencoders and attention-based anomaly detection, achieving 90% classification accuracy through model tuning.
- Implemented real-time financial analytics dashboards using Plotly and Dash to analyze 15+ metrics, enabling data-driven decision-making on pricing performance.
- Designed and optimized driver workflows for onboarding and ride operations, integrating Uber APIs, resulting in the successful onboarding of 15+ drivers and completion of 70+ rides.

**Samsung Research America**  
*Software Engineering Intern*

*Mountain View, CA*  
*May. 2023 – Aug. 2023*

- Engineered a popularity-based recommender system for the Bixby voice assistant, achieving a 30% increase in user interaction by addressing cold start scenarios and recommending top service providers for Bixby.
- Transformed 100M+ records of raw datasets into multi-arm bandit formulations, that improved recommendation accuracy by 25% through effective mapping of categories to services and defining response rewards.

**IBM India Pvt. Ltd**  
*Data Scientist*

*Bengaluru, India*  
*Jun. 2019 – Jul. 2022*

- Streamlined the deployment of machine learning models by implementing an end-to-end MLOps pipeline on IBM Cloud, improving time-to-production for banking clients by 30%
- Directed code base development for deploying an audio emotion recognition module using deep learning, achieving a 5% increase in accuracy from baselines and enabling real-time emotion detection.
- Formulated a predictive analytics framework for EMR data, achieving 88% accuracy in identifying patient subgroups with positive drug response, accelerating patient stratification by 20%.
- Optimized E.T.L. pipeline deployment on IBM Cloud, enhancing data workflow efficiency for 10+ daily updates.
- Collaborated with client teams to tailor the MLOps pipeline to specific claims workflows, resulting in a 30% increase in processing efficiency and efficient document handling

## LEADERSHIP

- Spearheaded customer discovery efforts as a participant in the NSF I-Corp program at CU Boulder, conducting 25 interviews to refine the AI impairment model and drive market fit.
- Directed the launch of idrv's on-demand driver service from concept to 350+ customers and 5+ event partnerships, driving 0 to 1 growth through targeted bar/event partnerships and digital campaigns.
- Led cross-functional execution across operations, tech, and marketing to prepare idrv for launch, coordinating a team of 10+ contributors and driving alignment across 5 business verticals.
- Orchestrated partnerships with local venues, event planners, and influencers—expanding reach in Denver and generating a 3x increase in ride demand within 2 months.
- Drove strategic fundraising initiatives by crafting investor pitch decks, financial models, and unit economics, securing initial meetings with multiple angel and seed-stage investors.