

AJEYA KRISHNA

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EDUCATION

IDD (B.Tech + M.Tech) in Engineering Physics, IIT BHU | CGPA : 8.75

2017-2022

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

Jan 2022 - Present

SaaS Labs

Bangalore, India

- Spearheaded the development of [JustcallIQ](#), a pioneering conversational intelligence platform. Revolutionized the platform's capabilities by introducing features like [Call Summary](#), [AI Call Scoring](#) and [AI Tags & Priority](#).
- Made a substantial impact on JustcallIQ's financial performance, generating over **\$500K** in revenue and orchestrating a **15%-30%** increase in the platform's pricing structure, simultaneously enhancing the user experience.
- Utilized Langchain and FAISS technology, developed custom Language Models (**LLM's**), and designed Data Pipelines from scratch to optimize information retrieval accuracy, showcasing advanced technology expertise.
- Developed [SMS Co-pilot](#), displaying tone scores and generating tailored content to match the desired tones. Seamlessly integrated into products like Helpwise and Justcall, leading to a **23%** customer engagement boost.
- Reduced model latency to **< 1000ms** using optimization techniques like asynchronous request handling. Integrated conversational intelligence products, resulting in a remarkable **75%** reduction in admin review duration.

Deep Learning Intern

May 2021 - Dec 2021

IIT BHU

Varanasi, India

- Developed a deep learning model employing transfer learning (ResNet50, InceptionResNetV2, VGG-16) to predict COVID-19 cases and segment affected regions. Achieved **92%** F1-score using a dataset of **25,000+** images.
- Implemented a Modified Attention U-Net architecture, fine-tuning essential hyperparameters such as epochs & learning rate to optimize the segmentation process. This refinement led to an impressive DICE score of **74.3**.

Data Science Intern

Aug 2020 - Oct 2020

Datalogy

Delhi, India

- Utilized Python (Pandas, Numpy, Seaborn) for in-depth data analysis, enhancing targeted marketing strategies.
- Implemented a diverse range of machine learning models to predict product sustainability, enabling informed decision-making based on data insights. This initiative led to a significant **25%** surge in customer acquisition.

SCHOLASTIC ACHIEVEMENTS

- Achieved an All India Rank of **2504** in JEE Advanced 2017 among 150,000+ selected students.
- Achieved a Rank **2** out of 9000+ submissions in the Cascade Cup, a ML hackathon organized by IITG .
- Secured Rank **3** out of 50+ teams in Analyticity a Data Case Study Hackathon organized by IIT BHU.
- Finished in Top **10** from 250+ teams in Data Wiz a Case Study Competition organized by SCMHRD Pune.

TECHNICAL SKILLS

Natural Language Processing

BERT, GPT, NLTK, OpenAI, PyTorch, Transformers, Langchain, VectorDB

Python Coding Toolkits

NumPy, SciPy, Flask, jwt, matplotlib, scikit-learn, FastAPI, Pandas, ngrok

Infrastructure and Tools

Docker, Git, Kubernetes, GCP, Sentry, MongoDB, VM, Grafana, Redis

KEY PROJECTS

Speech to Text | [Whisper](#) | [Link](#)

Nov 2022 - May 2023

Led the development of an advanced Whisper-based speech-to-text model, achieving remarkable improvements in transcription precision, efficiency and live transcription capabilities, ensuring rapid and accurate real-time conversion.

Predictive Age Group Modeling for Trell Users | [Cascade Cup](#) | [Link](#)

Dec 2020 - Jan 2021

Utilized data preprocessing, feature engineering, and diverse classification algorithms to accurately predict age groups for over **1M+** Trell users, at **81%** accuracy, facilitating targeted age-specific strategies in social media advertising.