

Ajeya Krishna

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EDUCATION

IIT BHU VARANASI

IDD in Engineering Physics
Grad : May 2022 | CGPA : 8.75

AMARAVATHI INSTITUTE BIEAP (XII)

Grad : May 2017 | CGPA : 9.72

ACHIEVEMENTS

- All India Rank of **2504** in JEE Advanced among 150,000+ selected students.
- Achieved Rank **24** out of 3000+ teams in a ML hackathon organized by IITG.
- Secured Rank **3** out of 50+ teams in a ML Hackathon organized by IIT BHU.

COURSEWORK

MLOPS SPEC

MACHINE LEARNING

DEEP LEARNING SPEC

BUSINESS STATISTICS SPEC

DATA ANALYSIS WITH PYTHON

SKILLS

NLP

- Langchain • Haystack • OPENAI
- PyTorch • Transformers • BERT
- GPT • VectorDB • Prompt Eng

PYTHON LIBRARIES

- NumPy • SciPy • Flask • jwt
- Matplotlib • Seaborn • Sklearn
- FastAPI • Pandas

INFRASTRUCTURE AND TOOLS

- Docker • Git • Kubernetes • GCP
- Sentry • MongoDB • VM • Latex
- Git • VsCode • Colab • Kaggle

OTHER

- Participated in 48 hours ML Hackathons EXL EQ' 21, ZS Campus Beats and Amazon ML Challenge '21.
- Took part in case study competitions held by IIT Madras and IIT Delhi.
- Played in several University-level Badminton tournaments.

EXPERIENCE

SAAS LABS | MACHINE LEARNING ENGINEER

June 2022 - Present | Bangalore, India

Integral Member of Transformative JustcallIQ Team:

- Spearheaded the development of **JustcallIQ**, a pioneering conversational intelligence platform, as an integral part of a 4 person team. Our collective efforts revolutionized the platform's capabilities, introducing innovative features like Context-AI, Call Score and Action Item Extraction
- Demonstrated a tangible impact on JustcallIQ's financial performance, contributing to over **\$500K** in revenue and successfully driving a **15%-30%** increase in the platform's pricing structure.
- Successfully cut down admin review duration by a remarkable **75%** through the integration of our conversational intelligence products.

Data Pipeline Architect and Machine Learning Innovator:

- Led the development of a robust data collection pipeline from scratch, improving data quality and revolutionizing platform performance
- Leveraged advanced technology stacks, including **Langchain**, Pinecone, Haystack, and FAISS, and implemented custom Language Model Models (LLMs), resulting in substantial advancements in machine learning operations and extensive platform capability expansion

Enhancing Operational Efficiency and Client Satisfaction:

- Implemented AI tools (SMS Co-pilot, Context-AI, Auto Tagging) to revolutionize workflows, boosting customer-facing agent confidence and professionalism. Achieved a grand **100%** surge in customer engagement post-features launch.
- Ensured client scripts aligned with industry standards by developing a Script Matching and Generation tool, further enhancing communication quality.

SAAS LABS | MACHINE LEARNING INTERN | [LINK](#)

Jan 2022 - June 2022 | Noida, India

DATALOGY | DATA SCIENCE INTERN | [LINK](#)

Aug 2020 - Oct 2020 | Delhi, India

Part of a 8-member Data Science team working on multiple projects

- Facilitated precise customer targeting by extracting valuable insights from data.
- Implemented multiple ML models to predict product sustainability.
- Drove a **25%** surge in customer acquisition leveraging actionable insights.

KEY PROJECTS

COVID-19 DETECTION & SEGMENTATION | GUIDE: PROF S.K.SINGH | [LINK](#)

May 2021 - May 2022 | Varanasi, India

- Utilized transfer learning to tailor **ResNet50**, **InceptionResNetV2** and optimized **Attention U-Net models**, significantly advancing COVID classification and segmentation for more accurate diagnostics.
- Utilized a robust dataset of 10,000+ images, achieving **95%** X-ray accuracy and **94%** CT accuracy. Achieved an impressive average Dice score of **74.3**.

SPEECH TO TEXT USING WHISPER | [LINK](#)

Jan 2022 - May 2022 | India

- Spearheaded cutting-edge speech-to-text model development using Whisper architecture, boosting transcription precision and efficiency.
- Engineered seamless FastAPI-based API, making Whisper-powered speech-to-text model effortlessly accessible for swift audio-to-text conversion.