

Akhil Devarashetti

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Experience

- BioTrillion** – San Francisco, California – *Computer Vision Engineer* MAY 2021 - PRESENT
R&D of pupillometry using Deep Learning techniques like Semantic Segmentation, Detection, etc.
- VNDLY** – Cincinnati, Ohio – *Developer* MAY 2020 - APR 2021
Trained *BERT*-based model on Semantic-Text-Similarity task to match the best candidates to jobs posted.
Highlight the most significant segments in a resume. Designed an automated training pipeline for *active learning*.
Technologies: *PyTorch, TensorFlow, Django, FastAPI, React, AWS, k8s*
- Aviso AI** – Hyderabad, India – *Full-Stack Engineer* MAR 2018 - JUN 2019
Reduced the ML cloud cost by **60%**. Redesigned and developed the deployment architecture of the ML-based software
Technologies: *Django, Kubernetes, AWS, Linux, Puppet*
- KMIT** – Hyderabad, India – *Full-Stack Engineer – Part-time* SEP 2015 - AUG 2017
Developed numerous web and mobile apps for the college's operations

Education

- Master's – Artificial Intelligence** APR 2020
University of Cincinnati, Cincinnati, Ohio GPA: 3.9/4
Courses taken: *Intelligent Systems, ML, AI, Deep Learning, Complex Systems, Computer Vision, StartupUC*
- Bachelor's – Computer Science and Engineering** MAY 2018
Keshav Memorial Institute of Technology, JNTU, Hyderabad, India GPA: 3.2/4

Achievements

- 3rd in India-wide NeuralHack hackathon - 10,000 participants
- 4th in RevolutionUC 2020 hackathon - 400 participants
- 1st in undergrad web app competition - 100 participants

Skills

Neural Nets	PyTorch, TensorFlow2, tf.js
Web	Django, FastAPI, React
Mobile	Flutter, Android
Languages	Python, Java, Kotlin, Dart, Bash
Cloud	AWS, GCP, Kubernetes

Certifications

- DeepLearning.AI*: TensorFlow in Practice
- Hortonworks*: HDP (Hadoop) Certified Developer: Java

Independent Projects

Access all my projects at akhil.ai/projects

Machine Learning Gallery – *PyTorch, TensorFlow.js, React.js, Django*

A myriad of *Deep Learning* projects deployed with live visualizations. Visit ml.gallery. Code: github.com/Akhilez/ml_gallery

Computer Vision	DenseCap, Detection, Captioning, Segmentation, pix2pix, AC-GAN, Colorizer, etc
Reinforcement Learning	A2C, Curiosity, AlphaZero, MuZero, Unified Env Framework
Natural Language Processing	Next Char (LSTM), What Genre (attention), Next Sentence (Transformer)
Unsupervised Learning	Self-Organizing Feature-Maps, AutoEncoder, Associative Memory
Miscellaneous	Spiking Neurons, MNIST Detection+Caption Dataset, AkiPy (DL from scratch)

Deep Colorizer – Web | TensorFlow

Colorizes grayscale images. Scored **96%** as academic project. Deployed at akhilez.com/colorizer

Student Feedback – Web | Django, MySQL

Faculty rating system with analytics. Currently deployed and used by my undergrad college with **1000+ students**.

Syllabus – Android, Web | Kotlin, Django, Firebase

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Other Independent Projects: [Alster AR](#), [DisCease](#), [Infobook](#), [TimeTable](#), [HoliFriends](#), [MedicWhizz](#), [Google Keep Backup](#)

Unpublished Research: Deep Reinforcement Learning Survey, DisCease: Simulating Herd Immunity, ComplekCity: Are Cities Organisms?