

Jainendra kumar

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EDUCATION

- **Indian Institute of Technology, Guwahati** Guwahati, India
Master of Technology, Computer Science; CGPA: 7.02 Jun 2015 – Jul 2017
- **Pondicherry University** Pondicherry, India
P.G.Diploma in Statistical & Research methods; Percentage: 62.10% Jun 2014 – Jul 2015
- **Mizoram University** Mizoram, India
Bachelor of Technology, Information Technology; CGPA:7.54 Jun 2009 – Aug 2013

EXPERIENCE

- **Jobiak.ai** Hyderabad, India
Senior Machine Learning Engineer Oct 2019 - Present
 - **Responsibility:**
Machine Learning Model Building and Optimization for Automated Job Posting software (Jobiak.ai Product).
 - Experience building REST APIs and containerizing for ML model using Flask.
 - Experience building ML based crawling technique to find joblisting page in company webpage.
 - Experience building Name Entity extraction model to extract job entity example jobtitle, joblocation, jobid etc.
 - Experience building Recommender system to recommend keywords to improve job ranking in GFG.
 - Experience doing data analysis and data visualization to improve job ranking in GFG.
- **Cognizant** Hyderabad, India
Machine Learning Engineer Jul 2017 - Oct 2019
 - **Chatbot Development, Deployment and Integration for Creatives2Code (Cognizant GTO product)—Duration April 2019 - Aug 2019:**
Product Description : Creatives2Code used to convert hand drawn/tool designed sketch prototyping of product to code (HTML/Angular..etc). Here chatbot used to add behavioral component to control in interactive way(Chat with ChatBot). Example: loading country JSON to country dropdown.
led product Development, Deployment and Integration.
Model Dataset Generation/Training: Incrementally added the validated conversation dialog-flow dataset to the model and training.
ChatBot Deployment: deployed to Cognizant internal sever (Window Server) and server as Http Api to Creatives2Code.
 - **Integration Webchat Widget to Creatives2Code:** Filtering ChatBot response(JSON) and modifying the Creatives2Code response(JSON) for given Element-ID captured during chatbot user conversation.
 - **Technology/tool:** Python, RASA NLU/Core, Liferay, JavaScript, Html, Webchat Widget.
 - **Ultra Fast Video Surveillance system—Duration Dec 2018 - Mar 2019:** Developed Video Surveillance system to recognize person identity in real time streaming video. technology/method: Python, YOLO, Object detection
 - **Analysis of the effective Incremental learning algorithm for image classification—Duration June 2018 - Dec 2018 :** Developed a techniques to incrementally train the Machine learning model without using previous dataset only previous model weights and new dataset required while training the model to reduce time and space of system. for experiment considered image datasets CIFAR-100.
Technology/tool/Method: Python, Tensorflow, CovNet.
 - **WIKI Question Answering System —Duration Jan 2018 - May 2018:** Developed QA system that able to search answer for a given question in a potentially very large corpus of unstructured documents. Thus the system has to combine the challenges of document retrieval (finding the relevant documents) with that of machine comprehension of text and answer the question correctly.
Technology/tool/Method: Python, NLTK, CoreNLP, Tensorflow.
 - **Speaker Identification application for mobile—Duration Aug 2017 - Dec 2017:** Developed Mobile Api for security. Allow mobile owner to set voice characteristics based password. Considered voice characteristics Feature are MFCC,DELTA and Spectrogram.
Technology/tool/Method: Python, python-speech-features, scikit-learn, coolEdit.

Indian Institute of Technology, Guwahati

Guwahati, India

Master of Technology, Computer science, Research and Teaching Assistant

Jun 2015 - Jul 2017

- **Energy Efficient Migration Aware Proportional Fair Scheduling on Multiprocessor:** This project includes Design, Implementation Analysis of Fault-Tolerant Multiprocessor Scheduling strategy for Real-time Embedded System. Technology: C++.
- **Portfolio Optimization In Stocks:** This project includes optimization of the stock portfolio so that it will give a high profit at given risk using convex optimization. Technologies: Python
- **Speech Processing: Voice Controlled Robot:** This project included the development of a speech recognition system using a Hidden Markov Model which can be trained using any language and can be used as a word recognizer in real time. Tools/Technologies: Visual Studio, C++.

SKILLS

Python, REST APIs development, Ipython Notebook, HTML, JavaScript, SQL, NoSQL, Statistics analysis, Natural Language Processing(NLP), Artificial Intelligence(AI), Machine learning(ML), Deep Learning(DL), Data Visualization, Web crawling, Generative AI, LLMs, finetuning, Prompt Engineering, Reinforcement Learning, Kubernetes, tensorflow serving,

TOOLS

Django, Pandas, Numpy, Matplotlib, Tableau, Scikit-learn, Tensorflow, Keras, NLTK, PySpark, Docker, AWS, Beautiful Soup, MongoDB, kserve, Amazon EKS, Docker, BentoML, MLOps MLflow, Model Management, Prefect Dataflow Automation, AWS Kinesis, AWS Lambda, Grafana, Evidently, github action, Terraform, Flask.

ACHIEVEMENTS

- **GATE:** Qualified in GATE 2015, 2016, 2017.
- **UGC-NET:** Qualified for Assistant Professor by UGC-NET in July 2018.

POSITIONS OF RESPONSIBILITY

- **Worked as Teaching Assistant in Programming lab (C, Java) :** Carried out my duties of conducting labs, checking codes of enrolled students and clarifying their lab related doubts
- **Worked as Teaching Assistant for Developing and Designing Departmental Automation System:** Department of CSE, IIT Guwahati.
- **Volunteered for Placements (2015 - 2016).** : Centre for Career Development, IIT Guwahati

KEY COURSES TAKEN

Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Statistics, Speech Processing, Logic in Computer Science, Mathematics for Computer Science, Theory of Computation, Computer Systems.