

AKHIL NUKALA

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EDUCATION

Indian Institute of Technology, Roorkee (IITR) Integrated Dual Degree B. Tech and M.B.A. Process Engineering <i>GPA: 7.15</i>	Roorkee 2012 - 2017
Sri Chaitanya Junior College Higher Secondary Education (12th) <i>GPA: 9.41</i>	Vijayawada 2010 - 2012
Viswabharati IIT Olympiad school SSC (10th) <i>GPA: 9.3</i>	Gudivada - 2010

EXPERIENCE

Algonox Technologies <i>Software Developer(Data Science)</i>	Hyderabad, Telangana June 2017 Present
<ul style="list-style-type: none">• Design and Develop modules for product ACE (Algonox Cognitive Engine)• Designing data pipeline to consume the data for machine learning models• Responsible for building applications which leverage Natural Language Processing• Developing chatbots with NLP and NLU capabilities• Deploy solutions in AWS(EC2).	

SKILLS

Programming Languages:	Python, Java, Node JS, C, C ++
Web Technologies:	RESTful Services, Flask, HTML, CSS, JavaScript
IDE:	Spyder, Eclipse, VSCode
Software Packages:	Microsoft Bot Framework, Numpy, Keras, Apache Solr, Sci-kit Learn
Version Control:	Git

PRODUCT

ACE (Algonox Congnitive Engine) <i>ABBY, Python, Flask, pandas, MySql, docker, kafka</i>	June 2018 Present
A product which automates the invoice processing flows.	
<ul style="list-style-type: none">• Designed and developed the business rules module which facilitate to change,modify, compare the extracted fields from ACE.• Developed digital signature extraction module which extracts digital signature from a digitally signed pdf.• Developed custom parser for the ABBYY xml output generated.• Developed integration module connecting UI, backend, database.• Developed wrapper for ABBYY SDK in python.• Deployment of the product in AWS(EC2).	

PROJECTS & SERVICES

ACE (Algonox Congnitive Engine) for PGS <i>ABBY, Python, Flask, MySql, docker, kafka</i>
Customized implementation of ACE for prudential global services.
Data Visualization and Monitoring Tool <i>Kibana, ElasticSearch, Logstash</i>
A alerting system which monitors the RPA bot logs.
ETL Automation <i>Java, Spring Boot, Selenium Web Driver</i>
Built data retrieval engine to get medical practioners data. Preprocessed the data collected from data retrieval engine to update the records. The updated records are loaded to the portal.
Information Retrieval <i>Python, BeautifulSoup, Scikit Learn</i>
A simple to use information retrieval app to check for warning letters issued by the government and actions to be taken with deadlines.
Free Text Analysis <i>Java, Spring Boot, Soundex</i>
A portal designed to search sales information with free text natural language queries to retrieve the information asked by the user.

Ecommerce Chat Bot *Apache Solr, Node JS, Bot Framework, Stanford Core NLP*

A chat bot designed for interacting with the shopping website customers to search and retrieve the relevant results.

Form Filling Bot *Node JS, Bot Framework, Microsoft Speech API, Bing Vision API*

A chatbot designed for a insurance company to process the claims faster by interacting with customers real time.

Doc Analytics *Python, VBA, PyWin32, Tesseract OCR*

A textual analytics suite to classify business documents. The classifications include Invoices, Salary Slips, Contract Documents.

POC's

ACE (Algonox Cognitive Engine) for HSBC *Spacy, RasaNLU*

Extracting name entities from the HSBC specific documents.

Food Trend Analysis *Python, Matplotlib, Shapely*

Designed data pipeline to ingest the data from various sources and do trend analysis of the dishes for any given area in the country.

Sentimental Analysis *Python, Keras, Numpy*

Developed an end-to-end sentimental analysis model to understand the customer product reviews.

Semantic Search Engine *Python, Apache Solr, Numpy*

A semantic search engine designed to retrieve the results for drug research with ontology and relations between different proteins.

Resume Parser *Python, clustering, tensorflow*

Extracting various information from a resume like skills, Experience, and calculating a profile score which is useful for assessing a candidate.

INTERSHIPS

Optimization Algorithms *Python*

Implemented Particle Swarm Optimization(PSO) and Differential Evolution(DE) Algorithms in Python and applied these techniques to constrained and unconstrained optimization problems.

ACADEMIC ACHIEVEMENTS

IIT JEE	2012
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Achieved rank of 4413 in IIT JEE entrance exam, in General Category

EAMCET	2012
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Achieved rank of 979 in EAMCET

GITHUB PROFILE AND RELAVANT COURSES

NLP-with-DeepLearning

<https://github.com/lihka1/cs224n-NLP-with-DeepLearning>

Honor code certificate courses

1. Introduction to computational thinking in Python.
2. Computational Structures Part1: Digital Circuits.
3. Computational Structures Part2: Computer Architecture.

Self studied MIT OCW courses

1. Introduction to Algorithms.
2. Mathematics for computer science.
3. Probabilistic System Analysis and Applied probability.
4. Elements of software construction.