

Ashish Rana

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EXPERIENCE

- **GE Healthcare** *DnA: Data and Analytics Team, Bengaluru*
Data Engineering Specialist *Aug 2019 - Present*
 - **Big Data Architectural Analysis and Trainings:** Carrying POCs on deploying highly scalable descriptive & predictive analysis models on Terradata, GreenPlum and Amazon AWS Cloud.
- **American Express** *Next Generation Data Management Team, Bengaluru*
Data Engineering Intern *Jan 2019 - Jun 2019*
 - **Development of In-House Scalable Monitoring Tools:** Grafana based custom jsonnet dashboards with Elasticsearch & Prometheus datastore created. Orchestration achieved with Python, Ansible & Golang scripts scalable upto 2000+ VMs.
 - **Automation, Data Analysis and Administrative Scripts :** Reducing cluster post provisioning time by 50%, Couchbase VMs stats for analytics & alerts obtained, multiprocessing VM patching increasing performance upto 400% on avg.
 - **Researching Next Generation Cloud Databases:** Architecture analysis & carrying benchmarks with YCSB.
 - **Extra Initiatives:** Clustering based recommendation system built for course recommendations improved with LDA topic modelling. Also, web-scraper for Confluence pages with CQL queries developed to find helping experts in respective domains. Presenting, discussing & carrying on meetings with multiple teams. Planned and organized intern outings, birthdays & farewells.
- **GE Digital** *Product Lifecycle Management COE Team, Bengaluru*
Software Engineering Intern *Jun 2018 - July 2018*
 - **ReST Web-Services:** Implemented ReST web-services from legacy SOAP with microservices compatible concept.
 - **SSO SAML Authentication:** Resolved logout and reauthentication issues, increased the use case coverage.
 - **Static Tool Analysis:** Case study with multiple open source tools on existing Enovia source code and scalable Solar based linting solution designed, github contributions to original tools also made.
 - **Functional Learnings:** Business understanding for application with user base of 40,000 gap analysis, stretch assignments initiative taken.

ACHIEVEMENTS

- **Machine Learning Hackathons:** Top 5% solutions in ZS Data Science 2019 Challenge. Top 15% solutions in Imarticus Car prediction Challenge.
- **Global Rank: 210 Div 2, October Mega Cook-Off 2018:** On Codechef coding platform for username rana.160796.
- **Author: Hackernoon, TowardsDataScience & AnalyticsVidhya:** Published articles on Deep Learning, ML, AI and Reinforcement learning with 60K+ views and 290+ unique recommendations. Published highest rated top weekly story on Hackernoon.
- **CheckerFramework, Contributor:** 2500+ lines of code committed, for jdk annotations. Created own prototype type system for determinism in code.

SELECTED PROJECTS

- **Clustering Based Online Recommendation System:** Based on course data from Pluralsight a clustering and LDA based recommendation system that uses elbow method for finding approximate number of cluster to minimize SSE.
- **OCR Denoiser for Digital PDFs:** Multi-processing design with recursive Levenshtein spell checker, numerical error remover and currency symbol handler. Holds higher accuracy than Tesseract & extendable ever improving design.
- **Optimization Algorithm GUI:** Convergence calculations for multidimensional fitness functions. Algorithms available like DE, GA, PSO, Random Walk. Extra comparative python implementation for efficiency comparison.
- **Markov Chain Music Generator:** Music generation of Indian classical music with finite visible markov chains with *mido*.
- **Aimacode, Contributor:** Contributing AI pseudocode algorithms. Specification Issues raised for aimajava.

SKILLS

- **Languages:** Python(*Proficient*), R(*Proficient*), Java(*Proficient*), Go(*Proficient*), Ansible, Shell Scripting, C, C++
- **Technologies:** Scikit-learn, Tensorflow, PyTorch, OpenAI Gym, NetworkX, nltk, Tkinter, Git, Linux, Grafana, Prometheus, Elasticsearch, Redis, Couchbase, Static Analysis Tools, SAML Jekyll, Adobe Suite, Microsoft Suite

COURSES

- **Elective:** Deep Learning, AI Search Methods, ML, NLP, Data Analytics, Data Mining, Social Networks, Cloud Computing , **Core:** Image Processing, Advanced Data Structure And Algorithms, Software Engineering, Information Management, Numerical Analysis, Optimizations, Discrete Mathematics, Networking, OS, TOC, Compilers, Computer Architecture, Microprocessors, Embedded Systems

CO-CURRICULARS

- **OWASP Chapter Design Head** : produced professional designs with Photoshop suite.
- **MARS(*Robotics Society*)**: Core Team: Maze-solvers Arduino & advanced C++ workshops conducted.
- **Scimatics Mentor, Design Head** : Java, C++, Arduino, graphic design workshops conducted.
- **Voluntary Experience** : Destitute home & Orphanage visits, Blood donor & Charity participation.
- **Academics Gold Medalist::** Social Network(*NPTEL-Course*), First Year(*Branch*), High School IMO

EDUCATION

- **Thapar Institute of Engineering and Technology** Patiala, Punjab
Computer Engineering, CGPA: 9.45 2015 – Present
- **Army Public School** Meerut Cantt, U.P : Jalandhar Cantt, Punjab
12th, Percent: 91.00 : 10th, Percent: 93.10 2013 – 2014 : 2011 – 2012