

Priya Arora

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Work Experience

Oracle

Seattle, USA

DATA SCIENTIST - [PYTHON, GRAFANA, INFLUXDB, MYSQL, PYTEST, DOCKER, CI/CD PIPELINE (BUILD SERVICE), YAML]

May 2022 - Present

- Leading automation forecasting for network capacity planning group Modules include:
 - I/O Handling
 - Data drifting
 - Modeling - Bayesian, Arima
 - Automatic report generation on breach days
 - Multi-processing/Optimization/Parallelization
 - Third party library integration - Kats (ongoing)
 - Backtesting - ongoing
- Mentored a newly onboarded Data-scientist in the group
- Generated actionable reports on network bandwidth data using Arima, and Bayesian models

Oracle Cloud

Seattle, WA, USA

SOFTWARE DEVELOPMENT ENGINEER 2 - [TYPESCRIPT, BITBUCKET, ORACLE CLOUD, DOCKER, GRAFANA, JIRA,

Oct 2019 - May 2022

CONFLUENCE (WIKI LIKE DOCUMENTATION)]

- Optimized build time of Oracle cloud front-end platform (loom) by 50% using different front end technologies like webpack, lerna etc
- To cross-check compatibility of upgraded node environment with different cloud services codebase (repository), migrated loom team sample-plugin to node 10. It laid a foundation for all the cloud services to understand the impact their services with newest front end technologies.
- For console (shell) telemetry service codebase (the service which renders metrics on the grafana dashboard), improved code-coverage from 20% to 85% by implementing a robust test-suite
- Implemented canary test-suite for console telemetry service, and deployed it on eight different realms - OC1-OC8
- Lately, have started contributing to their front-end libraries (Oracle user interface – react, and savant monorepo)
- Established a proof of concept for blind-folded hiring process during Oracle annual Hackathon competition in 2020.
- Developed a POC of a machine-learning model for intrusion detection in cloud systems with 85% efficacy
- On called for few weeks to understand customer issues, debugging and analyzing the system through logs/metrics, fixing those bugs.

Airproducts Chemicals

Pennsylvania

GRADUATE INTERN - [PYTHON, TENSORFLOW, KERAS, AWS, GIT, DATA-PIPELINE]

May 2018 - Aug 2018

- Single handedly designed and executed an acoustic image data pipeline using Convolutional Neural Network with 89% performance accuracy
- Trained LeNet architecture with Google audio set dataset
- Integrated anomaly-detection/deviation-detection component within the data-pipeline which improved performance by 6%

Cisco Systems

Bangalore, India

SOFTWARE ENGINEER 2 - [PYTHON, ANALYTICS, GIT]

Aug 2014 - Aug 2016

- Reduced manual efforts to validate management features protocol testing by contributing in their automation infrastructure through Python scripts
- Set up a server with all the application layer protocols like TACACS, Radius etc

University of Nottingham

Nottingham, England

RESEARCH INTERN - [METEOR FRAMEWORK, JAVASCRIPT, MONGODB, GIT, PYTHON, SKLEARN]

Jan 2014 - June 2014

- Developed an incident reporting system for Nottingham Health Services - user id psxpa3"
- Developed a machine learning algorithm (KNN model) on the data collected through hospital survey

Education

Texas A&M University

College Station

M.S. IN COMPUTER SCIENCE AND ENGINEERING - [RESEARCH, DATA-STRUCTURES & ALGORITHMS, PYTHON, KERAS, C++]

Aug 2016 - Aug 2019

- Researched on text-summarization for scientific papers
- Executed Interspeech 2018 cry vocalization competition track
- Explored theoretical aspect of multi-waymergesort and convex optimization
- Researched on mathematical aspect of toll pricing with a constant error for Traffic-flow using convex optimization

International Institute of Information Technology

Bangalore, India

M.TECH. IN COMPUTER SCIENCE AND ENGINEERING - [PYTHON, SKLEARN, HADOOP, JAVASCRIPT, RESEARCH, MYSQL,

Aug 2012 - July 2014

BASH SCRIPTING, XML, JSON, MYSQL, LINUX]

- Developed a machine learning model of Music Classification using Million Song Dataset, and achieved accuracy of 85%
- Implementation of a generic library for genetic algorithms using Hadoop [Map-Reduce programming paradigm]
- Implemented a Virtual Filesystem - a replica of Linux file system [C]

Projects

SUBSTANCE USE DISORDER DETECTION - [PYTHON, SKLEARN, GOOGLE COLAB, DECISION-TREE]

- Goal:- How to prevent/reduce opioid abuse in healthcare domain?
- To detect opioid substance Use Disorder among patients
- Devised a machine learning model using Decision tree with 89% accuracy as a part of Anthem AI Annual hackathon 2021

ANOMALY DETECTION IN AUDIO CLASSIFICATION - [PYTHON, TENSORFLOW, KERAS, AWS, GIT, DATA-PIPELINE, CNN, LUNET ARCHITECTURE]

- Goal:- Devised a machine learning model to find out non-working machine in chemical industry
- Single handedly designed and executed an acoustic image data pipeline using Convolutional Neural Network with 89% performance accuracy
- Trained LeNet architecture with Google audio set dataset
- Integrated anomaly detection component within the data-pipeline which improved performance by 6%

PRIVACY PRESERVING EMOTION DETECTION THROUGH SPEECH SIGNAL PRESERVING USER'S IDENTITY - [PYTHON, OPENSOURCE, KERAS, RESEARCH, IEMOCAP DATA-SET, SIAMESE ARCHITECTURE, MULTI-LAYERED FEED FORWARD NEURAL NETWORK]

- Goal:- Emotion detection through speech signal without revealing user's identity
- To answer this question, implemented a machine learning model using IEMOCAP data set for speech signal to detect emotion without revealing user's identity with 88% accuracy
- Achieved 30% better performance than multi-layered feed-forward neural network

Invited Talks & Poster Presentations

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| 2017 | Presenter , Presented a poster on multiway merge sort at GRAD-COHORT | <i>Washington DC</i> |
| 2014 | Speaker , Gave an expert talk on minor incident reporting system at Intel India in collaboration with Bangalore Google developer group | <i>India</i> |
| 2013 | Speaker , Gave a technical talk at a workshop conducted by AICTE on topic - Genetic Algorithms problem solved by MapReduce programming on big data-set at Acharya Institute of Technology | <i>Acharya Institute of Technology, India</i> |

Honors & Awards

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| 2021 | Oracle 2021 Quartely Shout-out callee , For contribution on Oracle "non-discrimiated hiring" project | <i>Seattle, WA</i> |
| 2020 | People Choice Award Winner , Oracle annual Hackathon - MadHacks | <i>Seattle, WA</i> |
| 2019 | Scholar , UnernehmerTUM Digital Product school | <i>Berlin, Germany</i> |
| 2019 | Awardee , Diversity Scholarship to attend PyData conference | <i>London</i> |
| 2019 | Scholar , Intel Edge AI Scholarship Program | <i>USA</i> |
| 2019 | Winner , Intel's smartest brain sweepstakes contest | <i>USA</i> |
| 2019 | Finalist , NCWIT collegiate Award for the "privacy-preserving emotion detection research" | <i>USA</i> |
| 2019 | Scholar , NCWIT Change Leader Scholar | <i>USA</i> |
| 2016, 2017, 2018 | Recipient , Grace Hopper Department Scholarship | <i>USA</i> |
| 2018 | Winner , BDathlon programming contest | <i>Online</i> |
| 2018 | Scholar , Udacity Bertelsmann Data Science Scholarship | <i>USA</i> |
| 2017 | Finalist , Anita Borg Institute's student board of member committee | <i>USA</i> |
| 2014 | Scholar , Google Women Techmaker scholarship to attend Europython conference | <i>Berlin, Germany</i> |
| 2013 | Scholar , Government of India scholarship | <i>India</i> |
| 2013-2014 | Scholar , MHRD (Ministry of Human Resource Development, Government of India) scholarship for M.Tech duration | <i>India</i> |