

IJAS A H

Data scientist

Data scientist with over 3 years of diversified experience developing data-intensive systems, solving challenging architecture, and scalability problems in a variety of sectors. proficient in Python programming, data processing, data mining, and predictive modelling technologies. capable of building, testing, and deploying a wide range of highly adaptable services to convert functional and business requirements into meaningful outputs.



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SKILLS

Programming Languages: Python, R

Packages: Pandas, NumPy, Matplotlib, SciPy, scikit-learn, spaCy

Deep learning packages (DL): Tensorflow, Keras

Web Framework : Django, FastAPI

Version Control: git, DVC

Algorithms (ML): Naive Bayes, SVM, Decision Tree, Random forest, KMeans, KNN, Linear regression, Logistic regression

Algorithms (DL): CNN, RNN, DNN, RCNN, FasterRCNN

MLOps: MLFlow

Quantum Computing : PennyLane

Probability and Statistics, Matrix operations, vectors

IDE: Visual Studio Code, PyCharm, Jupyter notebook

Cloud: Google AutoML, IBM WATSON, Azure Databricks, AWS Bracket

Database: Oracle - SQL

OS/Platforms: Linux, Windows

Cybersecurity (CEH certified, Written Scientific white papers related to security), vulnerability assessment (Basic knowledge and associated projects and research), risk remediation

Keywords: Supervised, Unsupervised, Classification, Clustering, Computer vision (CV), Natural Language Processing (NLP), Sequence models (GRU, LSTM), Data Science, Data analysis, Software Development, Machine Learning (ML), Artificial Intelligence (AI), Object-Oriented Programming (OOP), Explainable AI (XAI), Responsible AI (RAI)

EXPERIENCE

Data Scientist

QBurst Technologies Pvt Ltd.

01/2022 - Present

Bengaluru

QBurst is a software solutions provider that works with clients to maximize the effectiveness of business through the adoption of digital technology.

- Building solutions to solve complex industrial problems catering to different sectors like **Insurance** and **Finance** using complex machine learning and deep learning techniques.
- Developed computer vision applications that include damaged object recognition and analysis that has effectively improved 20% of manual tasks.
- Integrating AI&ML models with other applications using REST APIs and other connector technologies like fast api and Django.

Systems Engineer - R&D (Applied Quantum Computing, ML , AI)

Infosys Ltd.

12/2019 - 01/2022

Bengaluru

Infosys Limited is a multinational information technology company that provides business consulting, information technology and outsourcing services.

- Building solutions to solve complex industrial problems catering to different sectors like **Energy, Oil and Gas, Finance, and Healthcare** using complex machine learning and deep learning techniques.
- Developed deep neural network architecture and techniques which offers 2 times better resistance against adversarial attacks.
- Assisted in scientific research on **Quantum malware visualisation** (Quantum deep neural networks) and **optimal facility location-allocation** (Combinatorial optimisation) (These projects achieved 2-3% better performance when compared with their classical counter part).
- Achieved 5% faster implementation by guiding research through several interns and successfully conducted comparative studies on explainable AI, resume matching and federated learning concepts.
- Other aspects include presenting in internal and external meetings with high-level managers, university officials and several engineers within other prestigious organisations (As part of joint research programmes).

EDUCATION

B.TECH IN COMPUTER SCIENCE

SCMS School of engineering and technology

2015 - 2019

Ernakulam, India

PROJECTS

Insure aware - Machine Learning

- A digital solution suite comprised of multiple application that works to digitize the business for small, medium, and large business groups in the life insurance industry. The project aims at generating marketing insights from user data by utilizing machine learning techniques. This solution also offers user purchasing intent prediction as a service.

Damaged parts identification and extraction using computer vision - Deep Learning

- A software solution that utilises the power of deep learning(Object detection) to identify the damaged parts, evaluate the damages and to predict the possible insurance reimbursement amount.

Adversarial defence neural net - Deep Learning/Cyber security

- A set of complex neural network architecture that could fight and prevent against adversarial attacks.

Optimal facility locator - Combinatorial optimisation

- A strategic decision problem arising in contemporary supply chain management . It is used to determine an optimal number of facilities to be established, to evaluate and select the optimal locations for setting up facilities, and also to design an optimal distribution network.

Malware visualization - Deep Learning/Cyber security

- The project is to implement a static analyser tool (based on computer vision) that could detect malware in better with less computational requirements.

Evaluation of robustness of android malware detector against adversarial examples - Machine Learning/Cyber security

- To evaluate the performance of machine learning-based malware scanner against adversarial examples derived through poisoning and label flipping attacks. This was a research project and it is currently published under KES 2021 International Conference.

CERTIFICATES

Deep learning specialisation (Coursera)
(06/2022 - Present)

Infosys certified open chain practitioner
(10/2020 - Present)

Unix fundamental - Infosys certification
(06/2020 - Present)

IBM Applied AI Professional Certificate (06/2020 - Present)

Infosys certified python associate (05/2020 - Present)

Infosys certified global agile developer (10/2020 - Present)

Infosys certified Big data developer (09/2020 - Present)

Infosys certified data science using R professional
(06/2020 - Present)

Infosys certified python programmer (05/2020 - Present)

Certified Ethical Hacker (12/2017 - 12/2020)

ACHIEVEMENTS

5 star for problem solving- Hackerrank

Google-Coding competition(Kick start), Scored 1575th rank
in Round-H

Appreciation on Cyber security training given for
employees of sayonetech Infopark, Kochi

Tagged as full stack Infrastructure professional at Infosys

5 star for python programming by Hackerrank

AWARDS

INSTA AWARD (2nd time) (Guiding ML Research)
(10/2021 - 10/2021)
Infosys

IBM Advanced Quantum badge for qiskit challenge 2021.
(05/2021 - 05/2021)
IBM

INSTA AWARD (performance award by Infosys)
(03/2021 - 03/2021)
Infosys

RISE AWARD (2nd time)(Project Excellence)
(09/2021 - 09/2021)
Infosys

RISE AWARD- Project excellence (Awarded for team)
(04/2021 - 04/2021)
Infosys

Techzooka competition award by Infosys for presenting AI
POV (12/2020 - 12/2020)
Infosys

PUBLICATIONS

KES 2021 International Conference

Evaluation of Android malware scanners on Adversarial Attacks

Author(s)

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