Job Notification Form, IIT Delhi

Company Overview

Name:	Huawei Technologies
Website:	https://www.huawei.com/en/
Company Type:	Information Technology

Description: About Huawei Global

Huawei is a leading global information and communications technology (ICT) solutions provider. Driven by customer-centric innovation and open partnerships, Huawei has established an end-to-end ICT solutions portfolio that gives customers competitive advantages in telecom and enterprise networks, devices and cloud computing. Huawei's 180,000 employees worldwide are committed to creating maximum value for telecom operators, enterprises and consumers. Our innovative ICT solutions, products and services are used in more than 170 countries and regions, serving over one-third of the world's population.

About Huawei Technologies India Pvt Ltd

Huawei Technologies India Pvt Ltd is engaged in component/platform/product development aligned with Huaweiâ€™s global product development strategy, roadmap, architecture & solutions. Established in the year 2000 in Bengaluru, the India Research center is engaged in developing cutting-edge software solutions, products and platforms in the areas of IP based data transmission networks, intelligent networks, BSS, OSS, terminal devices and future-oriented technologies including SDN, big data, cloud, mobile internet, digital services. With employee strength of over 3000 software engineers, market technical support engineers and management professionals, the India R&D center is one of the largest overseas software development center of Huawei. Huawei India R&D Center has evolved to play a bigger role in the innovation journey of Huawei, develop future-oriented technologies, and support the digital transformation of the society.

Job Details

Designation:	Research Scientist
Type:	Information Technology
Place of Posting:	Bangalore

Job Details: Technology is dramatically transforming people's work and life now. Huawei's vision is to bring digital to every person, home and organization for a fully connected, intelligent world. Do you want to work on the latest technologies and be a part of the team that is working on state of the art project and an Opportunity to work in the new field of innovation connected to ICT domain (Storage, AI/ML/DL, NLP, Computer Vision, SRE, Cyber Security, Data Science, AI/ML, NLP, Search and Ads.

We are looking at technology enthusiast who are smart, passionate, out of the box thinkers and ready to take technology to the next level

Are you willing to learn from others and open to new ideas? Do you want to support others to succeed and operate in a highly collaborative and global environment? If this sounds like you, Huawei R&D would like to invite you to Work with us, where you can find exciting and challenging work waiting. Read on to

1. Position: Algorithm Expert(search ranking, local search ranking)
Location: Bangalore, India
Responsibilities:
• Responsible for the retrieval and ranking algorithm of massive webpage data, using information retrieval, natural language processing, intent analysis, user behavior analysis, etc. to improve search results;
• Statistical analysis of search engine large-scale click data, mining to obtain feature information useful for search ranking;
• Based on user behavior data, optimize click ranking algorithms, research and develop click ranking models, and improve search engine ranking results
Business skill requirements & Professional knowledge requirements:
• Familiar with the principle of text sorting, preferably familiar with LTR algorithm
• Familiar with java / c ++ development under Linux environment, at least one scripting language python / shell, etc.
• Proficient in information retrieval, natural language processing, intent analysis, user behavior analysis, etc.
• Prefer to have large-scale distributed system experience
• Relevant professional doctor degree is preferred

2. Position: Algorithm Expert(ads)
Location: Bangalore, India
Responsibilities:
• Development and optimization of search ads to improve the ranking of ads;
• Responsible for investigating the industry's advanced search advertising recommendation strategies, combining valuable business optimization strategies and suggestions with its own business output, and continuously improving user experience
• Responsible for the core research and development of search advertising core technologies such as basic relevance, timeliness, LTR, click model, deep semantic model, user behavior mining;

Business skill requirements & Professional knowledge requirements:
• Should have experience in any field such as advertising, search, advertising, NLP, recommendation system, data mining, path planning, etc., and those who have published high-quality papers are preferred;
• Familiar with common machine learning algorithms such as classification, ranking, and deep learning; familiar with common feature engineering methods;
• Familiar with Linux programming environment and have hadoop / spark or other similar big data platform work experience;
• Experience in search advertising is preferred "

3. Position: Algorithm Expert (NLP)
Job Description:
Responsibilities:
• Responsible for various basic NLP algorithms required for search and AI, including but not limited to: word segmentation, syntax, intent recognition, text classification, information extraction, reading comprehension, etc.
• Use natural language processing technology and machine learning algorithms to solve practical problems in a big data environment;
• Tracking cutting-edge algorithm technology, combining business needs, exploring the application of cutting-edge algorithm technology to actual business.
Business skill requirements & Professional knowledge requirements:
• Solid algorithm foundation: familiar with algorithm-related theories, algorithm principles and basic machine learning theories, and have a good mathematical foundation;
• Proficient in knowledge and skills in natural language processing related fields, familiar with common NLP field algorithms;
• Have practical experience in classification and clustering related to natural

language processing, entity recognition, syntax analysis, sentiment analysis and opinion mining, and semantic analysis;
• Familiar with one or more programming languages such as Java, Python, C ++;
Experience in multi-language word segmentation, text clustering and classification is preferred. "

4. Position: Knowledge Graph Expert
Job Description:
Responsibilities:
• Develop and optimize search recommendation of search engines to improve the effect of recommendation sorting.
• Use the knowledge graph technique to make data more meaningful to the search
• Develop ML/DL Model for to build the Knowledge Graph.
Service skill requirements:
• Familiar with common machine learning algorithms such as classification, sorting, and deep learning. Be familiar with common feature engineering methods.
• Familiar with the Linux programming environment and have experience in Hadoop/spark or other similar big data platforms
Professional knowledge requirements
Should have 0-3 years of experience in any of the following fields: Search Ranking, recommendation system, data mining, and path planning.
• High-quality papers are preferred.

5. Job Title: Data Scientist
We are looking for a Lead data scientist who will help us discover the information hidden in vast amounts of Ad Campaign data, and help us to optimize the campaign to improve the advertiser ROI and improve the overall consumer experience. Your primary focus will be in applying data mining techniques, doing statistical analysis, and building high quality prediction systems using Deep learning algorithms integrated with our products. Some the key area you will be working on spend recommendation, floor price prediction, CTR/CVR prediction, and Ads Optimization, market funnel analysis and perdition of lead to conversion, etc.

Responsibility:
Analyze the data, develop insights and identify the opportunity to utilize the data to predict various Advertisement key indicators like CTR, CVR, Inventory and Develop prediction and optimization algorithms for campaign, look alike modeling, etc for Huawei Ads.
□ Take-up key challenges in AI-driven Smart Ad Serving Platform and focus on research and developing leading AI algorithms and productionize for Huawei Ads.
□ Take-up initiative in identifying the SOTA and finding key gaps in AI algorithms and develop a world leading AI algorithms for optimizing existing Algorithms to improve CTR/CVR. Identify and optimize the core modules such as Traffic Prediction, Optimization, Ad Targeting/Re-targeting, Ad Performance Optimization, Audience insights, Attribution, Bidding, re-ranking, and Diagnostics. Support hundreds of billions of ad requests per day, with efficiently cache technology.
□ To build and enhance Ad platform features and Prediction capabilities in Huawei Ads Platform
□ Optimized Cost Per Mille; Optimized Cost Per Action; Optimized Cost Per Click and Cost per Click. OCPM, OCPA, OCPC.

Requirements:
□ Strong hands-on experience in implementing and validating big data pipelines and ML models including and not limited to k-NN, SVM, GBoost/XGBoost Algorithms, NLP, LSTM, Seq2Seq, other Deep Learning models etc.
□ Programming experience with Python
□ Able to validate existing models including Deep Learning models with large scale dataset and able to make changes to the models to achieve better performance
□ Experience in ML/DL open source toolkits and frameworks like PyTorch, Tensorflow, NLTK, Mahout, SparkML, etc
□ AdServing domain Experience is an added advantage

6. Job Title: SDE Intelligent Ops platform
Roles and Responsibilities:

1. Develop strategy and market analysis for futuristic technologies planning to enhance our existing platform moving towards intelligent governance.
2. Ideate, Research, design and develop an intelligent and autonomous management platform for containerized micro services having million+ endpoints with industry leading performance.
3. Build/Drive the competitiveness of the Ops platform to reach or exceed the industry benchmark
4. Support research cooperation projects with top University/Research institutes across the world.
5. Explore and research new technology concepts, achieve breakthrough and productize the concepts including areas such as AI/ML.
6. Support research cooperation initiatives that Involve Joint research projects with University/Research institutes/Partners
7. Practice DevOps process and build an E2E automation Ops tool chain/Frameworks as part of overall architecture.

Technical Skill and Experience Requirements:
Technical Skill Areas
• LAMP/LEMP stack hands-on
• Java/Python/Golang programming hands-on
• ReactJS/Angular/HTML/CSS hands-on
• Frameworks like spring boot, Django hands-on.
• AL/ML Opensource libraries like TensorFlow, Pytorch, keras, SparkMLlib, shogun.
• Cloud native applications and Micro services architecture design and development hands-on.
• Virtualization of OS, DB, Network knowledge
• Enterprise cloud products such as AWS, Azure, GCP.
• Observability tools like Prometheus, grafana.
• IAC tools like Ansible, Terraform
• Container products like Docker, Kubernetes, Rancher, DC/OS,
• Open source products/tools like Redis, Cassandra, Kafka, Zookeeper, Flume, HDFS, Spark.

Experience areas
• Have hands-on experience in research topics related to cloud native domain in Mobile internet Companies/Universities/Research institutes in the industry.
• Have experience in planning and designing architecture of AI Driven/Intelligent large-scale ops platform handling cloud infrastructure/services, with distributed data capacity in peta bytes.
• Have implemented Chaos Engineering Capability and Infrastructure as Code Solutions.
• Have active involvement in Open Source Community projects as a major participant and led the design or development of core modules of the projects.
• Have published patents/articles journals/websites in the industry and Presentation/Speeches related conferences.
• Have hands-on in product engineering lifecycle as individual contributor.

7. Job Title: SRE Data Analyst

Roles and Responsibilities:
1. Use automated tools to explore the platform and services generated peta-byte sized complex data sets to interpret, identify patterns, trends and action points for SRE team for improving reliability and user experience.
2. Research and report gaps and improvement areas for better systems/tools/processes to enhance the prediction and diagnosis of risks/issues through data analysis of the current environment
3. Develop strategy and analysis report for futuristic technologies to enhance our existing platform moving towards intelligent governance of the cloud services.
4. Work with engineering team, research team and business teams to identify problem areas and solution space.
5. Develop data systems to maintain the data with quality, security and context.
6. Explore and research new technology concepts, achieve breakthrough and productize the concepts including areas such as AI/ML.
7. Support research cooperation initiatives that Involve Joint research projects with University/Research institutes/Partners

Technical Skill and Experience Requirements:
Technical Skill Areas

- LAMP/LEMP stack hands-on
- Java/Python/Golang/Shell scripting, Virtualization of OS, DB, Network.
- Enterprise cloud products like AWS, Azure, GCP.
- Observability tools like Prometheus, grafana.
- IAC tools like Ansible, Terraform,
- Container products like Docker, Kubernetes, Rancher, DC/OS,
- Open source products/tools like Redis, Cassandra, Kafka, Zookeeper, Flume, HDFS, Spark.

Experience areas
- Have practical experience in leading Internet Companies, Universities/Research institutes in the industry, having handled cloud infrastructure, services based data analysis.
- Have experience in data models, reporting. Analysis of large data sets.
- Have active involvement in Open Source Community projects as a major participant in the data science/analysis domain.
- Have published patents/articles and participated in conferences as a speaker in relative conferences.
- Have experience in devops and cloud infrastructure and services related products.
- Have good communication, coordination, learning, and innovation capabilities. Passionate about solving challenging problems.

8. Risk Control Role

- Business skills:
- 1. Familiar with the e-commerce order business, mobile phone cloud business, payment business, and content security business, mainstream black market criminal products, and key risks;
- 2. Familiar with black market crime methods and black market intelligence, and have rich practical experience;
- 3. Familiar with the risk control systems and functions in the industry and have complete solutions for black market intelligence and black market defense.

- Job responsibilities:
- 1. Take charge of the risk control and operation of consumer cloud service products (account, payment, content, application market, and game), and ensure key product risks controllable, including but not limited to: spam registration, anti-theft account login, coupon-clipping, app-based scalping, click farming, app rankings manipulation, payment fraud and game account transaction;
- 2. Build the risk control operation system for cloud service products (account, payment, content, app market, and game), strengthen dark pattern resistance, and ensure stable, secure, and sustainable business operations;
- 3. Review the risk control management process, identify key risks, and improve product capabilities through product optimization to effectively control risks;
- 4. Build risk control model, set thresholds, maintain and upgrade the risk control model;
- 5. Respond to product risks in an emergency and establish a system of risk control warning and emergency handling;
- 6. Backtrack and locate risks and issues, output risk analysis reports and solutions, and follow up its closed-loop. Improve product competitiveness. Ensure that risks are controllable.
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- Work experience requirements:
- 1. Bachelor degree or above, good at teamwork;
- 2. should have 0- 3 years of practical business risk control experience;
- 3. Be familiar with at least one aspect of machine learning, data mining, data analysis, and distributed computing, and have some theoretical and practical experience;
- 4. Be sensitive to data, familiar with common data mining algorithms, and have practical experience;
- 5. Experience in anti-cheating strategies, user behavior analysis, and community relationship mining is preferred.

Professional knowledge:
- 1. Mathematics, statistics, computer and other related majors, business risk control, financial risk control industry work experience;

- 2. Proficient in SQL, able to use Python, R, or SAS to analyze data and perform statistical modeling;
- 3. Proficient in using machine learning algorithms and have project experience in semi-supervised and unsupervised models; have strong data modeling, data analysis and mining capabilities;
- 4. Have strong self-learning ability, clear logical thinking, keen insight, good analytical and problem-solving ability, communication and coordination ability;
- 5. Experience in identifying risks such as anti-fraud.
- Bonus item:
- 1. Have experience in e-commerce and cloud service marketing, anti-fraud models, or data products related to user behavior;
- 2. Majors in mathematics, statistics, computer, machine learning, and big data.

Disclaimer - Huawei Technologies India Pvt Ltd is an equal opportunity employer and committed to the principle of equal employment opportunity for all candidates and to provide employees with a work environment free of discrimination and harassment. All employment decisions at Huawei Technologies India Pvt Ltd are based on business needs, job requirements and individual qualifications and do not discriminate on the basis of race, color, religion, marital status, age, national origin, ancestry, physical condition, pregnancy, genetic information, gender, sexual orientation, gender identity or expression, veteran status, or any other status protected under local law.

Joining By: 30 December 2021

Salary Details

CTC: 2,625,000 INR Per Annum

Gross: 2,100,000 INR Per Annum

CTC Breakup:
Item Annual Monthly
Total of Gross Pay 1976448 164704
Total of Retrials (PF & Gratuity) 123552 10296
Total of Fixed Pay (1 + 2) 2100000 175000
Annual Performance Bonus (Indicative bonus could be up to 3 months of fixed pay)** 525000
Cost to company (CTC) 2625000

Selection Process

Resume Shortlist:	Yes
Written Test:	No
Online Test:	No
Group Discussion:	No
Medical Test:	No
Personal Interview:	Yes
No. of Rounds:	3 Rounds

Eligibility

Recruiting PHDs:	Yes
Eligible Departments:	M.S.(R) in Computer Science & Engineering, M.S.(R) in Information Technology