Job Notification Form, IIT Delhi

Company Overview

Name:	Robert Bosch Engineering & Business Solutions Private Limited
Company Type:	Private Sector
Description:	

Job Details

Designation:	Senior Engineer - Analytics
Type:	Analytics
Place of Posting:	Bangalore
Job Details:	1. Job Description – Data Scientist

Bosch is at the forefront of innovation in the connected world and is impacting millions of lives every day through its products in mobility, industrial technology, consumer goods and energy and smart building sectors. We rely on data for every aspect of our product lifecycle and operations and we collect a lot of it every day. Our team is responsible for enabling a wide variety of Bosch product teams to make use of advancements in AI through centralized services that involve streaming data from connected services to building and deploying state-of-art AI solutions. You will be part of a global team to make this happen!

We are looking for talented individuals who are passionate about building fault-tolerant data services and analytics tools targeted towards cutting-edge applications. Your work will be used by hundreds of Bosch engineers and will have global impact by improving the quality and value of Bosch products.

Job Requirements:

• Good knowledge of advanced statistical methods. Mine and analyze data, applying statistical methods as necessary, pertaining to customers' discovery and viewing experiences to identify critical product insights.

• Experience in creating statistical models and/or optimization frameworks for improving processes/products/profits through projects/internships

• Translate analytic insights into concrete, actionable recommendations for business or product improvement.

• Partner closely with product and engineering leaders throughout the lifecycle of project. Ensure that necessary data is captured; analytic needs are well-defined up front and coordinate the analytic needs.

• Drive efforts to enable leadership team to share your knowledge and insights through clear and concise communication, education, and data visualization.

• Able to persuade stakeholders and champion effective techniques through development.

• Strong interpersonal and communication skills: ability to tell a clear, concise, actionable story with data, to folks across various levels of the company.

• Demonstrating thought leadership and subject matter expertise in all relevant topics by coming up with papers, publications and patents

Technical Skills
• Expertise with one of the following scripting languages;
o Python, R, Knime, Mat-lab, Java, Mat-lab/Octave
• Tech savvy and willing to work with open-Source Tools
• Proven track record and experience with statistical modeling/data mining

• Proven track record and experience with statistical modeling/data mining algorithms mentioned below through internships/projects

o Multivariate Regression, Logistic Regression, clustering algorithms, Support Vector Machines, Decision Trees etc

o Machine learning, or graph mining. DOE, Forecasting, Segmentation, Uncertainty Analysis etc.

o Data Mining i.e. Text Mining, Classification Methods – SVM, NN, etc

o Vector Space model for Unstructured Text

o Sentiment Analysis, Association Mining, Semantic Analysis

• Relevant certifications through MOOCs and participation in online data science competitions (Kaggle/Analytics Vidhya) would be an added advantage

• Should know some programming language and willing to learn more.

Qualifications

B.Tech, Dual Degree (All Departments), Integrated 5 Yr. M.Sc.

2. Job Description – Data Engineer

Job Requirements:

• Design technology architectures required for data driven solutions, work closely with data scientists & engineers in this regard

• Ownership on end to end architecture right from ingress of data to creating prototype tangible solutions & applications.

• Explore and make right technology choices in delivering solutions, evolve best practices & guidelines for technology solutions

• Explore new technologies in the open source framework – Maintain & update technology stack with these findings

• Communication with various levels of management and technical staff

Technical Skills

• Experience in one or many of the below technologies / frameworks / languages through internships / projects / coursework etc.

o Spark and map reduce programming

o Experience in Java / Scala / Python – for data processing

o Experience with Big data work flows – Spark, Kafka, MR, Sqoop, HDFS-Hive, Solr, etc.,

o Exposure to NoSQL databases (e.g., HBase, Mongo DB)

o Knowledge of Hadoop administration – Cloudera/Hortonworks

o Experience with SQL database querying

• Strong analytical and problem solving skills and enthusiastic about learning new tools & technologies

• Excellent communication and documentation skills

• Application/Code Optimizations expertise

• Participation (and winning) in programming challenges would be an added advantage

Qualifications

B.Tech, Dual Degree (All Departments), Integrated 5 Yr. M.Sc.

3. Job Description – Machine Learning Engineer

Job Requirements:

• Working with stakeholders from different business units in Bosch to identify the business opportunities for leveraging the data to drive business solutions.

• Contribute to Key AI Product Challenges at BCAI, where we create fascinating, new AI products in joint projects with RB Business units.

• Address large-scale challenges in the machine learning development cycle, especially around distributed training in the cloud and data engineering.

• Translate analytic insights into concrete, actionable recommendations for business or product improvement.

• Develop customized Data models and algorithms for the customer data so that they are suited 100% to the specific requirements

• Collaborate closely with product and engineering leaders throughout the lifecycle of project. Ensure that necessary data is captured; analytic needs are well defined up front and coordinate the analytic needs.

• Regularly work with data scientists to productionize the AI models developed by the team.

• Review/test code written by others for critical feedback.

• Document code and results thoroughly and continuously.

• Strong interpersonal and communication skills: ability to tell a clear, concise, actionable story with data, to folks across various levels of the company.

Technical Skills

• Experience in one or many of the below technologies / frameworks / languages through internships / projects / coursework etc.

o Spark and map reduce programming

o Experience in Java / Scala / Python – for data processing

o Exposure to distributed computing and knowledge of micro-services, docker containers

o Knowledge of Hadoop administration – Cloudera/Hortonworks
o Experience with SQL database querying
• Strong analytical and problem solving skills, enthusiastic about learning new tools & technologies
• Excellent communication and documentation skills
• Application/Code Optimizations experience
• Participation (and winning) in programming challenges would be an added advantage
Qualifications
B.Tech, Dual Degree (All Departments), Integrated 5 Yr. M.Sc.

Joining By:	August 1

Salary Details

CTC:	1200000 INR Per Annum
Gross:	1035900 INR Per Annum
CTC Breakup:	Rs. Rs. Cash Components Basic Salary 30000 360000 Buffet of Benefits (HRA, LTA, Telephone, SAF Contribution, etc) 56325 675900 Gross Salary 86325 1035900 Retirals / Statutory Contribution Company Contribution towards Provident Fund (12% of Basic Salary) 3600 43200 Gratuity (4.81% of Basic Salary)** 1443 17316 Total Retirals / Statutory Contribution 5043 60516 Variable Pay Company Performance related Pay - CPrP at factor 1.0 company achievement 103590 Total Cost to Company 91368 1200000 National Pension System (NPS) Optional - Company Contribution 29988

Selection Process

Resume Shortlist:	No
Written Test:	No
Online Test:	Yes
Group Discussion:	No
Medical Test:	No
Personal Interview:	Yes
No. of Rounds:	3
No. of	5

Offers:

Minimum CGPA: 6.5

Eligibility

Recruiting PHDs: No

Eligible Departments: B.Tech in Biochemical Engineering & Biotechnology, B.Tech in Civil Engineering, B.Tech in Chemical Engineering, B.Tech in Computer Science & Engineering, B.Tech in Electrical Engineering, B.Tech in Electrical Engineering (Power and Automation), B.Tech in Mechanical Engineering, B.Tech in Production & Industrial Engineering, B.Tech in Mathematics & Computing, B.Tech in Engineering Physics, B.Tech in Textile Engineering, B.Tech and M.Tech in Biochemical Engg & Biotechnology, B.Tech and M.Tech in Chemical Engineering, B.Tech and M.Tech in Computer Science & Engineering, B.Tech and M.Tech in Mathematics & Computing, B.Tech in Production & Industrial Engineering and M.Tech in Production Engineering, B.Tech in Mechanical Engineering and M.Tech in Mechanical Design, B.Tech in Mechanical Engineering and M.Tech in Applied Mechanics, B.Tech in Production & Industrial Engineering and M.Tech in Mechanical Design, B.Tech in Textile Engineering and M.Tech in Computer Science & Engineering, B.Tech in Chemical Engineering and M.Tech in Computer Science & Engineering, B.Tech in Production & Industrial Engineering and M.Tech in Computer Science & Engineering, B.Tech in Civil Engineering and M.Tech in Structural Engineering, B.Tech in Civil Engineering and M.Tech in Construction Engineering & Management, B.Tech in Engineering Physics and M.Tech in Computer Science & Engineering, B.Tech in Mechanical Engineering and M.Tech in Thermal Engineering, B.Tech in Mechanical Engineering and M.Tech in Computer Science & Engineering, M.Tech in Chemical Engineering, M.Tech in Molecular Engineering: Chemical Synthesis & Analysis, M.Tech in Geotechnical and Geoenvironmental Engineering, M.Tech in Rock Engineering & Underground Structures, M.Tech in Structure Engineering, M.Tech in Water Resources Engineering, M.Tech in Construction Engineering & Management, M.Tech in Environmental Engineering & Management, M.Tech in Transportation Engineering, M.Tech in Computer Science & Engineering, M.Tech in Applied Optics, M.Tech in Solid State Materials, M.Tech in Fibre Science & Technology, M.Tech in Textile Engineering, M.Tech in Textile Chemical Processing, M.Tech in Atmospheric-Oceanic Science and Technology, M.Tech in Biomedical Engineering, Master of Design in Industrial Design, M.Tech in Communications Engineering, M.Tech in Computer Technology, M.Tech in Control & Automation, M.Tech in Integrated Electronics & Circuits, M.Tech in Power Electronics, Electrical Machines & Drives, M.Tech in Power Systems, M.Tech in Radio Frequency Design & Technology, M.Tech in Mechanical Design, M.Tech in Industrial Engineering, M.Tech in Production Engineering, M.Tech in Thermal Engineering, M.Tech in Engineering Analysis & Design, M.Tech in Industrial Tribology & Maintenance Engineering, M.Tech in Energy Studies, M.Tech in Instrument Technology, M.Tech in Optoelectronics & Optical Communication, M.Tech in Polymer Science & Technology, M.Tech in Telecommunication Technology & Management, M.Tech in VLSI Design Tools & Technology, M.S.(R) in Biochemical Engineering and Biotechnology, M.S.(R) in Chemical Engineering, M.S.(R) in Civil Engineering, M.S.(R) in Computer Science & Engineering, M.S.(R) in Telecommunication Technology and Management, M.S.(R) in Information Technology, M.S.(R) in Applied Mechanics, M.S.(R) in Mechanical Engineering, M.S.(R) in Electrical Engineering, M.Sc in Chemistry, M.Sc in Mathematics, M.Sc in Physics, Doctor of Philosophy