Akash Bhargava
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Educational Qualification

GRE: 301/340
TOEFL: 91/120

SRM Institute of Science and Technology   **Chennai, India**
B. Tech. Information Technology   Jun 2016 - Apr 2020
CGPA: 75 %

Jamnabai Narsee School   **Mumbai, India**
Grade 12th - Indian School Certificate (ISC)   Jun 2014 - Apr 2016
Grade: 85 %

Arya Vidya Mandir   **Mumbai, India**
10th Grade - Indian Certificate of Secondary Education (ICSE)   Jun 2014 - Apr 2016
Grade: 88 %

Projects

➢ **Title:** Financial Analysis of Company based on Machine Learning, Data Analytics using Python
Developing a Stock Price Prediction model based on:
R programming for graphical representation
Python for data extraction, regression and sentiment analysis
HTML-CSS for site development

Highlights
   ➢ Designed a Web Server for data extraction using MySQL and PHP
   ➢ Designed an algorithm using Logistic and Linear Regression for data prediction and forecast
   ➢ Designed an algorithm using Prophet and Pandas library for Time Series Forecasting
   ➢ Developed Data Exploration techniques in Python for insight generation
   ➢ Designed a Natural Language Processor using Sentiment analysis
   ➢ Developed a Data Visualizations using Gauge Chart, bar and pie chart
   ➢ Deployed solutions for an Electronics manufacturing company using Object Oriented models(use-case, class diagrams)

➢ **Title:** Smart Devices Using IOT
Designing a Smart Card Based Prepaid Electricity System which enables user to buy specific limit of energy and receive notification on exhausting the credit limit
Hardware Interface: Arduino Mega, WiFi Module - ESP8266, Energy Meter
Software: Arduino IDE and Keil uVision

➢ **Title:** Home Automation Using IOT
Designed a server based Home Automation System which controls and monitors users' home and hardware interface module even from remote locations
Hardware Interface: Arduino PCB (ready-made), Wi-Fi shield PCB, 3 Input Alarms PCB, and 3 Output Actuators PCB

WORK EXPERIENCE/INTERNSHIP

Sanctum Wealth Management   **Mumbai, India**
Intern   From (03/2020) - To (08/2020)
- Was a part of the Derivatives Team
- Built a software for Portfolio Management which could help
  the user understand the Performance Attribution
- Scraped web data from stock data sites (Screener) to extract data which was useful for Analysis
- Learned about F&O trading

KPMG   **Mumbai, India**
Analytics Intern   From (05/2020) - To (05/2020)
- Attended a Data Analytics Consulting Virtual Internship at KPMG
- Understood about Data Quality Assessment
- Performed detailed Data Insights
- Learned about Data Presentation

Deloitte   **Mumbai, India**
Technology Intern   From (05/2020) - To (05/2020)
- Attended a Technology Consulting Virtual Internship at Deloitte
- Understood Cloud Computing
- Handled Client Discovery
- Designed a Business Case
- Conducted a Market Scan with further analysis and solutions

JPMorgan Chase & Co.   **Mumbai, India**
SWE Intern   From(04/2020) - To (04/2020)
- Attended a Software Engineering Virtual Internship at JPMorgan Chase
- Learned how to perform Data Quality Assessment
- Performed Data Insights using the JPM Software
- Learned Unit Testing, handling stock data feed using JPMogran
  frameworks and Tools such as Perspective

Asha Electronics Pvt Ltd   **Mumbai, India**
Intern   From(06/2018) - To (07/2018)
- Designed Customer Service Module
- Developed an algorithm in Python for prescriptive analytics
- Developed the predictive model using Gradient Boosting Algorithm using Python
- Validated and tested models based on unseen points; deployed the models on internal server for time-based testing

Nariman Finance Pvt Ltd   **Mumbai, India**
 Finance Intern   From (05/2017) - To (06/2017)
- Performed Capital Market Reconciliations
- Performed sentiment analysis on companies' performance
- Developed a Time-Series Forecasting algorithm using Pandas for predicting stock prices
- Employed K-means Clustering algorithm for categorizing and analyzing datasets
- Incorporated data visualization techniques using Matplotlib

EXTRA CURRICULAR ACTIVITIES

- **Sponsorship Team for College Cultural Fest (2019):** Sourced sponsors for the event
- **Volunteer for IT Association (2018):** Managed teams from different clubs participating in the annual event hosted by the IT Association of the college
- **Climate Control Committee - SRMMUN (2018):** Discussed conventional methods for protecting environment
- Participant in Literary Fest **(2018)**
- Collected and donated books, toys, and stationary for underprivileged children, 2019
- Volunteered in cleaning mangroves in Mumbai , 2019
- Corporate Finance Summer course **(2019)**from HEC Paris **– Course Structure**
    - Company financial account analysis
    - Core financial ratios and concepts
    - Start-up and small cap financings and equity fund raising
    - Investor expectations and corporate communication
    - Dividend policies
    - Company valuation
    - Mergers and acquisitions financing

COMPUTER SKILLS

- **Operating Systems:** DOS, Windows 98, Windows XP, MAC OS
- **Programming Languages:** Python [Pandas|Numpy|ScikitLearn|Matplotlib], SQL, R[dplyr | ggplot2], JavaScript, Unity3D, C#, HTML/CSS, Java React.JS
- **Microsoft office:** Word, Excel, PowerPoint
- **Machine Learning Algorithms**: Decision Tree, Regression and Classification, Neural Networks, Kernel Methods & SVMs, Markov Decision Process, Bayesian Learning, Game Theory.
- **Statistical Techniques:** Regression Analysis, Time Series Forecasting, Monte Carle Simulation, Hypothesis Testing, A/B Testing. \
- **Applications**: Tableau, Microsoft Office, Github, Qlik, Oracle SQL, MySQL, Apache Spark, AWS, IBM Watson, IBM Quantum.
- **Finance**: Derivatives, Corporate Finance, Economics (Micro/Macro)

Certificates/Courses

- **IBM** Applied AI (Professional Certificate)
- **IBM** Applied Data Science (Professional Certificate)
- **(MIT)**: Principles Of MicroEconomics
- (**MIT**): Mathematics with Application in Finance
- **(Coursera):** Introduction to the Internet of Things and Embedded Systems from University of California,Irvine,2019
- **(Coursera):** Introduction to Data Science in Python, University of Michigan,2019
- **(Coursera):** Introduction to Big Data ,University of California San Diego, 2018
- Predicting Coupon Efficacy (Big Data) from **Alibaba Cloud Academy**, 2018
- Machine Learning For Beginners - Linear Regression from **Alibaba Cloud Academy**, 2018