Ishan Babbar

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Profile

Data Scientist and Machine Learning Engineer | Focused on Conducting Quantitative & Qualitative Data Analysis as well as Developing Innovative FinTech Products and Solutions Through Utilizing Emerging Technologies such as AI & Blockchain.

Skills

- Utilizing emerging technologies, blockchain, machine learning, and deep learning tools to predict stock market patterns while enabling everyone to trade stocks, exchange traded funds, options, and cryptocurrencies online.

- Generating tools and insights for financial services institutions, investment banks and brokerages, in order to help make product development decisions across the entire lifecycle, from prototyping to research, launch and testing.

- Collaborating with product managers to translate business challenges into actionable questions, and performing statistical analysis in order to develop a solution based on machine learning algorithms, and rules-based models.

- Helping UX designers with data visualization and manipulating datasets to gain deeper insights into building platforms that offer a smarter customer experience such as in digital e-commerce platforms or connected devices.

- Supporting the development of intelligent systems, as well as deployment of advanced data mining techniques in order to deliver insights that support revenue generation, risk management, research and operational efficiency.

Experience

Aug 2018 – Present, **Data Scientist** @ Yewno
Yewno offers a proprietary Knowledge Graph Platform to extract market data and deliver insights that are backed by facts. I'm responsible for finding hidden data patterns & investment opportunities, allowing investors to be ahead of the market.

- Utilized boto3 (AWS SDK for Python) to build a data library that allows pulling and analysis of large sets of data.
- Used Machine Learning Tools to find intersections between data points and concepts mapped by Dow Jones Index.
- Supported data integration with other systems, applications, scripts, or libraries such as the Stanford University.

Nov 2018 – Present, **Data Analytics @** UC Berkeley Extension
I am a Teaching Assistant for the Data Analytics Bootcamp offered by UC Berkeley and Trilogy Education. My goal is helping students really grasp difficult data analytics tools that can be directly applied in the workspace.

- Teaching and debugging Data Analytics coursework for working professionals in the classroom
- Evaluating assignments such as projects, homework and giving feedback to students for further improvement
- This is the content for this bootcamp:
    - Advanced Excel (Pivot Tables, VBA Scripting), Fundamental Statistics (Modeling, Forecasting)
    - Python Programming (Python3, NumPy, Pandas, Matplotlib, API Interactions, Social Media Mining)
    - Databases (MySQL, MongoDB, ETL)
    - Front–End Web Visualization (HTML, CSS, Bootstrap, Dashboarding, JavaScript Charting, D3.js, Geomapping with Leaflet.js)
    - Business Intelligence Software (Tableau)
    - Advanced Topics (Big Data Analytics with Hadoop, Machine Learning)

Feb – May 2018, **Software Developer** @ Pendleton Solutions
A defense security company dedicated to security management, cybersecurity, asset protection & information technology.
I was responsible for building the company's website using tools such as Amazon Web Services, S3 bucket, and Bootstrap.

- Designed and developed the front-end framework for the main websites and its applications, by utilizing HTML and CSS-based components, ReactJS (JavaScript library for UI design), and Redux (open-source JavaScript library).
- Effectively researched, analyzed and suggested alternative web solutions for mitigating risks and identifying gaps.

Aug - Dec 2017, **Blockchain Developer** @ WeVote
A digital voter platform that utilizes a blockchain-based open source system that enables voting in a large-scale fashion.
I was responsible for using Solidity (programming language for writing smart contracts) to build a prototype voting system.

- Used a microcontroller board (Arduino Uno) to power the system interface for this platform in the Netherlands.
- Defined design specs by consulting with the teams and creating metrics to quantify risks specific to the solution.

Apr – June 2016, **Software Engineer** @ Made In Space
The in-space manufacturing company specializing in the design and engineering of 3D printers for use in microgravity.
I was responsible for building a software that allows personnel on earth to remotely print 3D components on the ISS.

- Supported engineering projects related to satellite communication from earth to the International Space Station.
- Executed test plans in order to challenge models through experiential analyses and verify model implementation.

Nov 2015 – May 2016, **Java Developer** @ Neurosys
An innovative software company focusing on delivering premium E-Commerce websites & applications to the customers.
I was responsible for developing an e-commerce solution and identifying practical approaches to launching the platform.

- Utilized the Spring framework, a layered architecture, with several modules on front-end web development.
- Helped with the analysis of requirements, architecture design, implementing test plans, and documentation.

May – Aug 2015, **Software Developer** @ Tech Mahindra
A multinational provider of information technology, networking technology solutions and business process outsourcing.
I was responsible for front end software development tasks in building a platform for video storage and management.

- Successfully used Java programming to design major aspects of TechTube, an online data/video storage platform.
- Collaborated with business analysts to design, code, test, debug, and support new software projects and features.

Education

- Major: Computer Science, minor: Technological Entrepreneurship, University of Maryland, GPA 3.63, July 2018
- Artificial Intelligence for Trading Nanodegree, Udacity, January 2019
- AWS Solutions Architect Associate Certification, December 2018
- Studied Data Science & Knowledge Engineering @ Maastricht University, Netherlands, 2017 – 2018
- Hinman CEO's Program, 2016 – 2018, www.hinmanceos.umd.edu

Achievements

- Created a Hackathon at UMD Virtual Reality Club, RealityHacks and instructed a workshop on 360 Film Production.

- Founded Start-up Limitless (online incubator) and Next Dimension (VR Film Editing software)
- Albatross Tournament 2016: Featured Top 20 in Junior Championship Golf Tournament (out of 120 participants)
- Virtual Reality Manager and Event Planner, Technica Hackathon at College Park, MD on November 2016
- Molife School Project Coordinator, published in "16-year-old comes to the rescue" and documentary.

Technology

- Java, JavaScript, Angular JS, React JS | Python, Solidity | C, C++ | HTML and CSS, XML | MySQL, NoSQL, Bash
- TensorFlow, Keras, PyTorch, ScikitLearn | AWS, GCloud | Node.js, Spring IOC, Redux | PostgreSQL, MongoDB
- Eclipse, IntelliJ IDEA | PyCharm, Anaconda | Atom, Sublime Text, Notepad++, Dreamweaver, Brackets
- Arduino, NXT, Raspberry PI | Android Studio, XCode, Visual Studio | Adobe Premiere Pro, Photoshop, Final Cut