


 <https://avkash.github.io/mldl/>  
 <https://stackoverflow.com/users/1325423/avkashchauhan>  
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**Avkash Chauhan**  
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My objective is to make my organization & team an exciting place to work, participate, collaborate and be productive while making sure our customers are delighted with the products and services we build.

**WORK EXPERIENCE:** Total 18 years with last 6 years into AI platform and solutions, big data & analytics application development in cloud and on-premise plus executive management & founding startup

#### **I AM PASSIONATE TO DO THE FOLLOWING:**

- **Drive organizational vision** with cross-functional teams through ownership, planning and execution
- **Setup and execute** technical program strategy for an organization to **build horizontal and vertical AI platform & solutions** including various **data engineering & management components, machine learning engines and libraries** combining **AutoML and ensembles, model transformer, management and deployment** functions to run on **Google Cloud, AWS and Microsoft Azure**
- Lead the **Technical Program Management for AI, Big Data and Analytics** solutions running on either **cloud or on-premise** or in **hybrid environments** for horizontal and/or vertical solutions
- **Develop and enhance AI business and revenue** with fortune 500 and other high-profile customers
- Build **engineering and success teams**, improve productivity, collaboration & customer satisfaction
- **Build any ML prototype using Java, Python and React** with **H2O, Tensorflow, and XGBoost** libraries

#### **Things I have done at Macnica (Fuji Electronics) as VP, AI Platform and Business:**





(From February 2018 to June 2019 at San Jose/Tokyo)

- Started from February 2018 to build AI business from scratch while working with AI Strategy team and reporting to the president while travelling to Yokohama, Japan every month for 2+ weeks each visit
- My target was to achieve **\$6 million AI business by 2020** through AI horizontal solutions in Japan while the overall AI platform and business target was \$25M including industrial and autonomous AI division
- Within first 60 days, I **met with over 40+ businesses in Japan** to learn their various data types & data storage methods and data specific issues and focused on transactional data related to customers
- Created business strategy document for “**Customer AI Solution**” for Macnica enterprise customers from **Healthcare, Retail, Insurance and Subscription-based services** for all kinds of customers
- Customer AI Horizontal Solution features are **Customer Life Time Value (LTV), Churn Prediction, Price Prediction, Product Propensity model, and Customer Purchase Behavior**
- Recruited ML & software engineers to build Minimum Viable Product (**MVP**) using **Java, Python and React** using **H2O, TensorFlow, XGBoost, Scikit-Learn and LightGBM** machine learning libraries
- Customer AI Solution key functionalities are various **Data connectors, Data Profiler, Data validator, Feature Engineering & Micro Modeling, Automated ML, Ensemble Engine, Model Retraining, Model Transformer (H2O Java, C++ Models ONNX and TensorRT), Model Deployment**
- Implemented **Agile development strategy** through **fluid specification and weekly release cycle**
- Started **MVP trials** within 6 months and setup **Support, Success and Deployment** strategy
- Created **Docker container** to have data ingest, profiler, validator, AutoML & ensemble engine into one container and model management & deployment module into another container
- Evangelize Macnica AI products to various target customers, conferences and public events

#### **Things I have done at H2O.ai as VP of Enterprise Platforms and Customers:**

(From July 2016 to January 2018 at Mountain View, CA)

- My objective was to **transform the H2O.ai OS Development & Support business** to boost revenue
- I traveled and met with over 30 enterprise customers (**12 Fortune 500**) to understand their problems and worked with our engineering team to develop the required module into H2O OS platform
- With the help from leadership, I implemented **enterprise strategy at H2O.ai** includes **customer-centric development strategy, product support team and process**, and effective **customer success** model
- The product development was 50%-50% between OS and enterprise customer needs which I changed to **80% enterprise customers-based requirements and 20% based on open sources needs**

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- **Fixed Open-source Release cycle** to twice a month, owned open-source release for a quality release
- Setup **release follow up process** to publish blog, articles and reach out to all enterprise customers about the update and work with Success team to make sure customer can update without issues
- Built **customer support and success team** from the ground up to manage paid enterprise and non-paying open-source customers, implemented **FreshDesk** and **JIRA** for the effective operation
- With customer success & additional software development **grew H2O.ai revenue footprint**
- Incubated the **Driverless AI** solution with H2O.ai developers, collected the feedback from 30+ enterprise customers and assisted Driverless AI development to make sure it is **enterprise-ready**
- Added **RDBMS support to H2O OS platform** to ingest data directly using JDBC driver and build model
- Managed over **20K open-source and 30+ enterprise customers** with product and solution team

### Things I have done at **Big Data Perspective** as **Founder and Principal**:

(From January 2014 to Jun 2016 at San Francisco, CA)

- While at Microsoft I managed over **1.8M Azure VMs** with my team and learned the art of managing web-scale data and infrastructure which I wanted to build an appliance to manage **Big Data clusters** running **Hadoop, Cassandra, Spark & Kafka** into the cloud, on-premise and hybrid environments
- With the idea of developing an appliance to manage big data clusters I raised **650K seed from angel**
- I lead the development of **Unified Operational Analytics Appliance** mainly in **Java & React** using **H2O** based machine learning library to apply **deep learning autoencoders** for **outlier's detection** into system & operation data with a team of total 5 developers including myself as a primary developer
- Designed **Big Data Perspective UI** including dynamic dashboards & web-scale data management capabilities with live alerts, over **70 graphs** to show system & operational data with process details
- **Deployed** Perspective Appliance to **7 customers** and managed **Support & Success responsibilities**

### **EMPLOYMENT HISTORY BEYOND 2014:**

**Platfora (Workday.com): Sr. Engineer** (May 2013 - December 2013) – San Mateo, CA

- Deployed V1 to first 6 customers, delivered custom build for IQT, added Telemetry into application

**Microsoft Corporation: Principal Tech Lead** (other roles) (August 2004 – April 2013) – Redmond WA

- While at Microsoft I developed a log parsing script to identify the root cause into any Azure VM issues out of 1.8M VMs from any global data center under 5 minutes and founded 30+ person **Global Rapid Response team for Azure** under my leadership and I was awarded Microsoft President Award for that.
- Core developer of **Azure HDInsight (Hadoop on Azure)** from its incubation (Authored a book)
- Lead the Azure deployment for top Microsoft customers i.e. Xbox Live(\$2B), Windows Volume License(\$5B) and Microsoft IT, Office 365 and Microsoft Exchange 365
- Managed Azure private appliance deployment process with Fujitsu for about 2 years
- Managed 45 Embedded OEM customers in Japan, China, Taiwan, Korea for over 4 years
- During 2005-2008 I traveled to Japan, China, Korea & Taiwan every quarter to assist OEMs for CE and Windows Mobile expedite development, achieved **200+M Windows CE licenses annual growth**
- As CE/OEM engineer developed HAL, CE + OEM BSP integration, USB/SDIO/NDIS device drivers

**International Systems Research: Developer** (April 2001 – July 2004) – Tokyo and Foster City CA

- Worked on telecom projects i.e. PHS and FOMA with NTT, Toshiba, Hitachi, Nissan, and Casio

### **EDUCATION:**

- Master's in Mathematics & Computer Science – Jiwaji University, Gwalior MP INDIA (1998)
- Bachelor's in mathematics, Physics, and Chemistry – Sagar University, MP INDIA (1994)

### **AUTHOR: Published 3 books**

- Simplifying Big Data with Microsoft HDInsight (2012)
- Introducing Microsoft Azure HDInsight (2013) & Learning Cloudera Impala (2013)