

Sunil Kumar (B. Tech., IIT Bombay, 1992-96)

<https://www.linkedin.com/in/sunil96>

sunil_iitb96@yahoo.co.in

<https://github.com/sunil4data/sunil4data.github.io>

DOB: 25 May '73

Indiranagar, Bangalore, INDIA

+91-9886044841



Career Objective & Competencies

Seeking opportunity of being part of business growth story around emerging technologies and owning large scale challenges.

I am people oriented and carry strong work ethics. Thriving at volumes of work & challenges and vigour for crux & mechanisms have been my consistent strength.

I am on sabbatical for few months, full time pursuing my **passion for abstract data, insights and scale** (AI/ML & Distributed ML / Big Data, Pipeline <https://github.com/sunil4data/sunil4data.github.io>).

- Actively hands on through critical code/design/test, reviews, defects troubleshooting, knowledge sharing, etc. Gaining complete command of core components has been my habits on almost all engagements.
- 2+ years of experience in time series signals systems modelling & visualizations, 2+ years in machine vision, 8+ years in digital image processing
- 5+ years on open source platforms
- 10+ years of hiring talents & people management (Gallup style of focusing on strengths and empowerment)
- 15+ yrs. successful global clients relationship & proven track record of tons of quality delivery of desktop, mobile & enterprise apps & frameworks

Skills (proficient enough to work without help, mentor team and exchange discussion with experts)

- Image Processing: Compression, transforms, filtering & enhancements, OpenCV
- Statistical Methods: Inference, Regression, Hypothesis Testing & Confidence Interval, ANOVA, Dimensionality Reduction
- Machine Learning: Linear Regression, GLM, SVM, Decision Trees, Random Forests, Boosting, Deep Learning (NLP, Computer Vision)
- Scala, Python (Panda, Sklearn, TensorFlow / Keras, Fast.ai), R, Java, Matlab, Spark.ml Distributed ML (Azure Databricks, IBM Watson)
- Data Visualization: Matlab, Seaborn, matplotlib, ggplot
- Azure & GCP: AD, SSO, OAuth, IAM, Data Storage, Data Services, Data Security, Cache, Messaging Services
- WebServices, REST / SOAP, SQL / LINQ / EntityFramework, C#, C++, JavaScript, HTML5, XML/JSON, CVS, Git, Maven, Docker

Certifications

- Distributed ML & Big Data practice using Apache Hadoop, Spark, Spark.ML, Spark.SQL on IBM Watson & Azure Databricks
- *Deep Learning for Coders 2018* by Fast.ai
- Key online courses "CS231n: CNN for Visual Recognition" by Andrej Karpathy et. al. & NLP by Chris Manning et. al., Stanford University
- [Data Science 10-courses Specialization Certification](#) by JHU on Coursera with [NLP Capstone](#) - 2018
- [Machine Learning with TensorFlow on Google Cloud Platform 5-courses specialization](#) by Google Cloud on Coursera - 2018
- [Exam 535: Architecting Microsoft Azure Solutions](#) with special interest in Data, Security & PaaS areas - 2018
- *Managing Knowledge Organization* Short Duration Executive Programs, IIM Bangalore

Experience

On Sabbatical - Pursuing AI/ML, Distributed ML / Big Data (<https://github.com/sunil4data/sunil4data.github.io>)

Apr 2018 – onwards

- Cloud, Machine Learning, Deep Learning & Big Data certifications
- Practicing through freelancing & Kaggle competitions & tutorials kernels
- NLP Capstone project & assignments during Coursera Data Science specialization
- Thorough investigation & practicing of algorithms, research papers, use case scenarios, industry trends & OSS on key topics of Statistical Modeling, Dimensionality Reduction, Cross Validation, Decision Tree, Boosting, Clustering, NNets, ResNet, LSTM, Embedding, Transfer Learning.
- Passionate ground work of EDA, Data Cleaning & Feature Engineering on all explored problems.

Celstream Technologies Pvt. Ltd.

Feb 2004 – Mar 2018

Engineering Manager (2016) ← Sr. PM ('13) ← PM ('11) ← TM ('06) ← PL (2004)

Bangalore

- Delivered software products & solutions for 15+ top Fortune clients (Xerox, Dell, Panasonic, Kodak Alaris, etc.) with multiple small Dev & QA teams.
- Lead Documents Imaging & Enterprise Systems competencies CoE serving various clients.
- Have grown expert in spotting talent, building teams, managing transitions, resource planning & utilization, and projects delivery.
- Most recent grand achievement was when 8 out of total 11 annual awards was won in my teams.
- Projects across clients programs (refer to Projects Portfolio table): -
 - Full stack development & maintenance of Enterprise Applications Software, Cloud Solutions development & migration
 - Document Scanning & Printing solutions platform development & maintenance to support new & existing printers programs
 - Image processing, PKI, Virtualization
 - Investigation, proof of concepts, technical proposals for prospective clients and for competency building in new technologies

National Instrument, R&D Startup, India

Sr. Software Engineer (May'01) ← SW Engr

Apr 2000 – Jan 2004

Bangalore

- As R&D **Startup Bootstrapper** (reporting to VP Intl R&D) building teams and capabilities.
- Innovative approach of talent development and people management (First, Break All The Rules & Build To Last were the Bibles for whole team)
- Consistent growth up to 14 engineers & consolidation into 4 products & technologies teams.
- Excelled in challenging environment of evolving teams, offshore clients, products, technologies & processes.
- Biggest achievement was in setting up extended team for new product platform & successfully delivering new series product support.
- Worked as allrounder as-in-any-startup, engaged with cross functional product teams, reviewed all deliverables.
- Co-organized annual expo & tech talks.
- Projects for various product teams: -
 - Windows kernel drivers for PCI data acquisition products platform
 - Toolkits (Report Generation; Motion & Vision, Signal Spectrum Analysis) development
 - Test & Measurement Instruments Drivers, Add-on for various toolkits & Sales demo kits

ADE, DRDO Labs

Scientist "C" (Jan'98) ← Sc "B"

Aug 1996 – Mar 2000

Bangalore

- Sensors Data acquisition, and Signal Processing for Aircraft Systems Health Monitoring (Matlab, C++, Signal Processing, Visualizations).
- Research in the field of Unsupervised Learning, Singular Value Decomposition SVD / Eigen Systems, Time Series Systems Modelling.
- Paper publication in national seminar & internal technical report publication.

Projects Portfolio (key projects at Celstream)

Team Size	Client	Project Scope	Tools & Technologies	Achievements & Challenges
15	Xerox 2006 – '16	Xerox Client Software Program Document Scanning & Printing solutions platform development & maintenance to support new & existing Printers programs	Xerox enterprise platform C++/C#, COM, SOAP/REST, Image processing, Printing & Document Imaging software systems	<ul style="list-style-type: none">• Lead Document Imaging CoE with multiple teams of Win, Mac & Android dev & QA teams• Brushed shoulders with geek techies & finest program managers at Xerox• Perfected the art of lean & pragmatic Software Engineering & Integration methodologies• Worked with their suppliers & partners (including Microsoft & Apple)• Consistent delivery of great client satisfaction to various client groups
15	Kodak Alaris, Dell & Fuji Xerox 2013 – '17	Enterprise Document Management & Work Collaboration Apps platform OneDrive cloud connector in Dell Document Hub platform Azure IoT solution	.Net, JavaScript / Angular, HTML5, WebAPI / SOAP, SharePoint, SaaS Apps Integration, Secure Coding Lifecycle SQL, LINQ, Entity Framework Java, Junit, OSGI, Blueprint, MS Graph API, AD, Oauth Azure IoT Hub, Stream Analytics , CosmosDB, WebJob, ARM	<ul style="list-style-type: none">• Meeting client expectation of capability & growth• Full Stack .NET Web App development involving open source frameworks• Architected Azure Cloud solution• Big budget program delivered with impressive ROI• Delivered with aggressively low cost teams• Demonstrated consistent expectations management during this phased long running program involving changing scope & priority• Experienced working through Dell new product process involving secure development life cycle
5	Kodak, Panasonic & Sindoh 2010 – '16	Digital image stream transfer & processing; Image stream transfer virtualization; Marvel print imaging pipeline enhancement	Image processing & compression algorithms; Marvel PIP SDK; USB/TCP/UDP/RDP, SSL/TLS/encryption, C++/C#	<ul style="list-style-type: none">• State-of-the-art implementation of digital images transfer protocol virtualization over TCP & RDP• Pair programming with developer to implement complex image transfer protocol & image reconstruction from lines, bands through JBIG decompression and color space conversion• Mentoring new team in Print Imaging and its Pipeline; Image layout requirements & algorithms were extremely intricate• Perfect contractual & high quality fixed price projects & end game negotiations• Active engagement with APAC clients experts & managers