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| **Sunil Kumar (B. Tech., IIT Bombay, 1992-96)** | | DOB: 25 May ‘73 |  |
| <https://www.linkedin.com/in/sunil96> | [sunil\_iitb96@yahoo.co.in](mailto:sunil_iitb96@yahoo.co.in) | Indiranagar, Bangalore, INDIA |
| <https://github.com/sunil4data/sunil4data.github.io> |  | +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, Skearn, 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., Standford University
* [*Data Science 10-courses Specialization Certification*](https://www.coursera.org/account/accomplishments/specialization/6GQAJK4A4WXH) by JHU on Coursera with [*NLP Capstone*](http://rpubs.com/sunil4data/data_science_capstone) - 2018
* [*Machine Learning with TensorFlow on Google Cloud Platform 5-courses specialization*](https://www.coursera.org/account/accomplishments/specialization/YYBW28SLFQEF) by Google Cloud on Coursera - 2018
* [*Exam 535: Architecting Microsoft Azure Solutions*](https://www.youracclaim.com/badges/1db1ed9c-0c8a-4314-a7dc-b1f350039b89) with special interest in Data, Security & PaaS areas - 2018
* *Managing Knowledge Organization* Short Duration Executive Programs, IIM Bangalore

**Experience**

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| **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.

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| **[Celstream Technologies Pvt. Ltd.](http://www.celstream.com/)** | **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

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| [**National Instrument**](http://www.ni.com)**, R&D Startup, India** | **Apr 2000 – Jan 2004** |
| **Sr. Software Engineer** (May’01) 🡸 SW Engr | **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

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| **ADE,** [**DRDO Labs**](https://www.drdo.gov.in) | **Aug 1996 – Mar 2000** |
| **Scientist “C”** (Jan’98)🡸 Sc “B” | **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)**

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| **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 | * 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 | * 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# | * 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 |