

## Contact

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## Top Skills

Microsoft Azure  
Data Modeling  
PySpark

## Languages

English (Full Professional)  
Tamil (Native or Bilingual)

## Certifications

DP-200: Implementing an Azure Data Solution  
Neo4j Certified Professional  
Microsoft Certified: Fabric Analytics Engineer Associate  
IBM Certified Application Developer - DB2 9 Certification

## Publications

Methodolgy to overcome LRECL(Logical Record Length) Constraint in Mainframe  
Social Commerce-Integrating e-commerce with social media

# Pradeep Pannneerselvam

Cloud Data Architect at EY || Data & Analytics || Azure || Manager  
Chennai, Tamil Nadu, India

## Summary

- Experienced Cloud Data Architect with 13+ years in Data Analytics and Software development.
- Expertise in full lifecycle development of Data solution: analysis, design, coding, testing, and production migration.
- As a Lead Data Engineer, have developed comprehensive End to End ETL solutions for both on-prem and cloud.
- Contributed to numerous RFPs and led few of them, played crucial role in acquiring new business and developing reusable assets & accelerators.
- Proficient in data warehousing: Data Modeling, Requirement Analysis, ETL, Reporting, and Big Data Architectures.
- Microsoft Certified Azure Data Engineer with extensive experience in Azure data stack: Databricks, ADLS Gen 2, Azure Data Factory, Synapse Analytics, Event Hub, SQL DB, COSMOS DB, Azure Functions, Logic Apps, and more.
- As a data modeler created large scale data models (Conceptual/ Logical/Physical) for FMCG clients.
- Provided enterprise-level solution and developed a comprehensive plug-and-play scalable parameterized metadata-driven Framework for ingestion, curation & consumption using Pyspark which executes 15000 workflows across environments.
- Designed and developed an Azure streaming solution that processes 200 million events per day.
- Proven success in optimizing Spark jobs to minimize execution time.
- Hands-on experience with UI Tech Stack: Angular, Node.js, & Postgres DB.
- Agile methodology practitioner, familiar with SAFe-Agile methodology and ceremonies.
- Strong multitasking skills, able to prioritize workload effectively with excellent communication abilities.

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## Experience

EY

Data Architect | Lead Big Data Engineer | Data Modeller

May 2021 - Present (4 years 2 months)

Chennai, Tamil Nadu, India

- > Played key role in the next Gen IoT platform design and development to process Real-time streaming data.
- > Designed and developed an End-to-End Azure Streaming solution using Databricks, Event Hub.
- > Completely redesigned an existing solution to bring down the SLA to few seconds for a streaming load of 50 million events per day.
- > Developed a proof of concept to set up Flink on Azure Kubernetes Cluster. Demonstrated it using a producer and consumer App.
- > Lead teams to develop multiple reusable components and automation tools. Some are incorporated across the enterprise.
- > Played Key role in providing solution for a couple of Request For Proposal.

Cognizant

4 years 8 months

Lead Big data Developer

May 2019 - May 2021 (2 years 1 month)

Chennai, Tamil Nadu

- > Team Lead, played vital role in design and development of Metadata driven Spark-Scala based End to End Transformation Framework (Raw, Curated & Consumption).
- > Framework incorporated as an enterprise wide Transformation tool, estimated cost saving \$ 270K.
- > Played Key role in providing solutioning for RFPs [Request For Proposal] in 4 different accounts.
- > Microsoft Azure development experience in DataBricks, Synapse, ADF, ADLS, HD Insight, Logic Apps, Event Hubs & KeyVault.
- > Developed loosely coupled individual modules for Edge node, Spark, HDFS, Hive, HBase CDC(Delta), Kafka and MongoDB from scratch with parametrized optimization techniques.
- > Developed Spark-Scala Automation Tool to generate metrics from Hive tables, reduced 4 hrs of BA activity to 10 mins.
- > Developed a Java Spark algorithm to build rich customizable excel report from HDFS data.
- > Designed and developed Angular-based Full-stack UI for a generic Big data product.

## Big Data Developer

October 2016 - April 2019 (2 years 7 months)

Kuala Lumpur, Malaysia

- > Team Lead and Implementation Driver in KL SCB (onshore).
- > Lead Developer in design and development of Kafka-Spark Streaming-Mongo DB app.
- > Part of the core development team which built initial Data Lake setup , extensively worked with HDFS, Spark-Scala, Hive, Sqoop, Mongo DB, Kafka ,Java orchestrated by Oozie.
- > Created a configurable Spark based ingestion tool that reduced new sources onboarding time by 60%.
- > Optimized long running Spark jobs and improved job performance.
- > Scaled up streaming application to process 20K records/ 50 seconds, with fallback mechanism.
- > Created a configurable Kafka offset management to seek back and forth of stream data.
- > Developed a parametrized custom audit and validation process using Spark and Bash.

## Tata Consultancy Services

Mainframe Lead Developer and System Analyst

March 2012 - October 2016 (4 years 8 months)

- > Played a critical role in development and upgrade of mission critical core Credit Card Components.
- > As a module lead worked with a team of junior developers and successfully delivered 2 high risk credit card migration project that had changes to 500+ source components and 20+ Systems impact.
- > Good Knowledge and deep understanding of Core credit card functions and CARDLINK.
- > Worked with Architects and prepared a comprehensive code level impact documents for migration projects.
- > Created tool to automate the code changes and tracking reducing manual effort by 95%.
- > Contributed as a developer to migrate age old in-built underwriting engine with a highly adaptive Underwriting software – SMG3.
- > Interacting directly with clients and taking the responsibility of offshore delivery.
- > Awarded “Distinguished performer” and “Star of the Month” multiple times for offshore performance and project Delivery.

## Education

### PSNA CET

Bachelor's Degree, Computer Science · (2007 - 2011)

### Madurai Kamraj University, Madurai

Master of Business Administration - MBA(Distance Edu) , Information Technology · (2012 - 2014)

### St.Thomas matriculation Hr secondary School ,Tuticorin

High School, Maths Biology · (2004 - 2006)