**# PAPEL**

**Estudante de Cientista de dados para dados de infraestrutura**

**# Objetivos**

**Encontrar as melhores features de dados de infraestrutura coletados para avaliar a degradação de sistemas kubernetes. Solicito que descreva as melhores técnicas para avaliar features com dados contínuos.**

**# Informações sobre a fonte de dados**

**Segue arquivo features.txt com os dados categorizados por tipo de infraestrutura. Segue arquivo amostra.txt com exemplo dos dados do dataset. Em sua maioria as features são dados contínuos.**

**DIVERSOS**

os\_timestamp, node\_name, iteration

**CPU**

mean\_os\_cpu\_ctx\_switches, mean\_os\_cpu\_guest, mean\_os\_cpu\_guest\_nice,mean\_os\_cpu\_idle, mean\_os\_cpu\_interrupts, mean\_os\_cpu\_iowait, mean\_os\_cpu\_irq, mean\_os\_cpu\_nice, mean\_os\_cpu\_soft\_interrupts, mean\_os\_cpu\_softirq, mean\_os\_cpu\_steal, mean\_os\_cpu\_syscalls, mean\_os\_cpu\_system, mean\_os\_cpu\_user,

**DISCO**

mean\_os\_disk\_discard\_io, mean\_os\_disk\_discard\_merges, mean\_os\_disk\_discard\_sectors, mean\_os\_disk\_discard\_ticks, mean\_os\_disk\_in\_flight, mean\_os\_disk\_io\_ticks, mean\_os\_disk\_read\_io, mean\_os\_disk\_read\_merge, mean\_os\_disk\_read\_sectors, mean\_os\_disk\_read\_ticks, mean\_os\_disk\_time\_in\_queue, mean\_os\_disk\_write\_io, mean\_os\_disk\_write\_merge, mean\_os\_disk\_write\_sectors, mean\_os\_disk\_write\_ticks,

**MEMÓRIA**

mean\_os\_mem\_nr\_active\_anon, mean\_os\_mem\_nr\_active\_file, mean\_os\_mem\_nr\_inactive\_anon, mean\_os\_mem\_nr\_inactive\_file, mean\_os\_mem\_nr\_mapped, mean\_os\_mem\_pgfault, mean\_os\_mem\_pgfree, mean\_os\_mem\_pgmajfault, mean\_os\_mem\_pgpgin, mean\_os\_mem\_pgpgout, mean\_os\_mem\_pgreuse,

**REDE**

mean\_os\_net\_bytes\_recv, mean\_os\_net\_bytes\_sent, mean\_os\_net\_dropin, mean\_os\_net\_dropout, mean\_os\_net\_errin, mean\_os\_net\_errout, mean\_os\_net\_num\_connections, mean\_os\_net\_packets\_recv, mean\_os\_net\_packets\_sent,

**PROCESSO**

mean\_process\_cpu\_children\_system, mean\_process\_cpu\_children\_user, mean\_process\_cpu\_iowait, mean\_process\_cpu\_system, mean\_process\_cpu\_user, mean\_process\_disk\_read\_bytes, mean\_process\_disk\_read\_chars, mean\_process\_disk\_read\_count, mean\_process\_disk\_write\_bytes, mean\_process\_disk\_write\_chars, mean\_process\_disk\_write\_count, mean\_process\_mem\_data, mean\_process\_mem\_dt, mean\_process\_mem\_lib, mean\_process\_mem\_resident, mean\_process\_mem\_shared, mean\_process\_mem\_size,